

Introduction

Catalog of Undergraduate Programs

Catalog of Graduate and Professional Programs

Catalog Archives

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.

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University of Missouri - Kansas City (UMKC)

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

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University Accreditation

“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.

Special Notices

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

Telcommunications 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. The [Division of Diversity, Access & Equity](#) is responsible for all relevant programs.

[Division of Diversity, Access & Equity](#)
5115 Oak Street
(816) 235-**1323**
Fax: (816) 235-**6537**
ode@umkc.edu
<http://www.umkc.edu/chancellor/ode/>

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>.

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/chancellor/ode>

or by writing to

Mailing Address

University of Missouri-Kansas City
Division of Diversity, Access & Equity
5100 Rockhill Road
Kansas City, MO 64110-2499

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

Academic Programs

Catalog of Undergraduate Programs

Catalog of Graduate and Professional 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 Business and Public Administration [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]
 - School of Pharmacy [PHARMACY]

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
- **AMERICAN STUDIES [A&S]**
 - Bachelor of Arts
- **ANTHROPOLOGY**
 - Minor in Anthropology
- **ARCHITECTURAL STUDIES [A&S]**
 - Bachelor of Arts (Joint Program with Kansas State: 5-year degree awarded by KSU)
- **ART [A&S]**
 - Bachelor of Arts
- **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]**
 - Interdisciplinary 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 CRIMINOLOGY [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 STUDIES [A&S]
 - Bachelor of Arts
 - Bachelor of Science
 - 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]
 - Interdisciplinary Gerontology Minor
 - Gerontology Certificate
- GIRLS' STUDIES [A&S]
 - Certificate in Girls' Studies
- HEALING AND HUMANITIES [A&S]
 - Interdisciplinary Healing and Humanities Minor
- HISTORY [A&S]
 - Bachelor of Arts
 - Minor in History
- INFORMATION TECHNOLOGY [SCE]
 - Bachelor of Information Technology
- JUDAIC STUDIES [A&S]
 - Interdisciplinary Judaic Studies Minor
- LABOR STUDIES [A&S]

- Certificate in Labor Studies
- 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
- MEDICAL TECHNOLOGY [SBS]
 - Bachelor of Science
- 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
- 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
- PHARMACEUTICAL SCIENCE [PHARMACY]
 - Bachelor of Science
- PHILOSOPHY [A&S]
 - Bachelor of Arts
 - Minor in Philosophy

- PHYSICS [A&S]
 - Bachelor of Arts
 - Bachelor of Science
 - Minor in Physics
- 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/Chemistry 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
- 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
 - Biochemistry
 - 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
- COMPUTER SCIENCE [SCE]
 - Master of Science in Computer Science
 - Bioinformatics
 - Networking and Telecommunications
 - Software Engineering and Systems
- COUNSELING AND GUIDANCE [EDUCATION]
 - 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 Theory and Leadership
 - Early Childhood Education
 - Elementary or Middle School Specialty
 - Multicultural Education
 - Subject Matter Specialty
- 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
 - Creative Writing
- ENVIRONMENTAL AND URBAN GEOSCIENCES [A&S]
 - Master of Science
- 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
 - Electrical and Computer Engineering
 - Engineering
 - English
 - Entrepreneurship
 - Geosciences
 - History
 - Mathematics
 - Molecular Biology and Biochemistry
 - Music Education
 - Oral Biology
 - Pharmaceutical Sciences
 - Pharmacology
 - Physics
 - Political Science
 - Psychology
 - Public Affairs and Administration
 - Religious Studies
 - Social Sciences Consortium: Economics, Political Science and Sociology
 - Sociology
 - Telecommunication and Computer Networking
 - Urban Leadership and Policy Studies in Education
- **LAW [LAW]**
 - Juris Doctor
 - Business and Entrepreneurial Law
 - Child and Family 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
- **MUSIC [CONSERVATORY]**
 - Master of Arts
 - Music Therapy
- **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
 - Accordion
 - 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
 - Accordion
 - 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
 - Accordion
 - 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
- MUSICOLOGY [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
- PHARMACEUTICAL SCIENCE [PHARMACY]
 - Master of Science
 - Pharmaceutical Chemistry
 - Pharmaceutics
 - Pharmacology
 - Pharmacy Administration
 - Toxicology
- PHARMACY [PHARMACY]
 - Doctor of Pharmacy
- PHYSICS [A&S]
 - Master of Science
- POLITICAL SCIENCE [A&S]
 - Master of Arts
- PSYCHOLOGY [A&S]
 - 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 [LAW]
 - Master of Laws
- 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

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:

Jennifer DeHaemers 

Associate Directors/Admissions:

Tamra Cloutier 

Doretta Sims Kidd 

Manager, Welcome Center:

Sydney Rogers 

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

Special Admission Cases

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

Superior high school students may be admitted in a special student category for the purpose of taking one or two University courses concurrently with their final year or two of high school.

Students must submit Visiting High School Student applications that include high school recommendations. Students are admitted on the basis of academic standards that exceed those required for admission from high school. Admissions are limited and governed by space available in and prerequisites for the desired course or courses.

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. The student must earn a 2.0 grade-point average to be eligible to enroll the following semester.

Students who do not meet the core requirements for admission, in some cases, may also be admitted conditionally once they provide evidence of enrollment in the coursework needed. Students can choose from several options during their senior year in high school or the summer before their freshman year to gain regular admission.

UMKC encourages students to choose one of the following options to fulfill the core requirements:

- Take coursework in the required area at UMKC 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.

Dual Credit Course Transferability

The University of Missouri assures the transfer of five courses taken as dual credit in high school delivered by institutions that are listed by the CBHE as being in compliance with the dual credit policy. Dual credit courses are defined as courses taken for both college and high school credit that were delivered in a high school by a high school teacher. The transferability of more than five dual credit courses will be evaluated on a course-by-course basis. There will be no limit on the number of courses that are accepted in transfer. This is consistent with the policy of the CBHE, stated in the *Credit Transfer: Guidelines for Student Transfer and Articulation Among Missouri Colleges and Universities*, for students who request to transfer credit without completing a two-year degree or being certified as completing a general

education curriculum.

GED High School

Any individual may apply for admission on the basis of passing the General Educational Development (GED) tests after the individual's high school class has graduated. 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.

Special Admission from Accredited High Schools

Graduates of accredited high schools that do not provide class rank 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.

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.

Application for Admission

Qualified students seeking admission must submit:

1. Completed application form at the
 - o online site at <http://www.umkc.edu/admissions> by clicking on "Apply Now" and creating an account
 - or- from the
 - o download site at <http://onestop.umkc.edu/forms.cfm>

A nonrefundable application fee of \$35 (domestic) or \$50 (international) is required in either case.

2. High school transcripts with class rank (if applicant has fewer than 24 transfer college hours).
3. Official transcripts from each previous institution attended.
4. ACT score (if applicant has fewer than 24 transfer college hours).

Note: Certain academic programs require additional supporting documentation.

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 you are seeking.

A. 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/decision.asp> with nonrefundable \$35 (domestic) or \$50 (international) application fee. /li>
2. Official transcripts from all colleges and universities attended.

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.

B. Special Admission

Students from other colleges or universities of recognized standing who do not have a 2.0 GPA may be admitted upon special petition to the Office of Admissions, provided the admission is approved by the academic unit.

C. Transfer Within the University of Missouri System

For students transferring between campuses of the University of Missouri System, the following University of Missouri policy is applicable: "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."

For each student of the University, there will be calculated 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.

D. Transfer of College Credit from Other Colleges and Universities

Refer to the [General Undergraduate Academic Regulations and Information](#) section of the catalog. Students who have completed an associate of arts (A.A.) degree from a Missouri college oriented toward a baccalaureate degree 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.

An associate of science (A.S.) degree is a specialized degree and students should consult the specific degree program in which they are interested or the Office of Admissions to determine their admissibility and the transfer of credit.

Midwest Student Exchange Program

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

Metro Rate

The Metro Rate is a program benefiting undergraduate, non-professional students who are legal residents of Johnson, Leavenworth, Miami 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.

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** to determine if they may re-enter without reapplication and to obtain the appropriate form.

Other former students who wish to return to UMKC must apply for readmission. In general, the current policies for admission from other colleges and universities as outlined above apply to the readmission of students who formerly attended the University of Kansas City or UMKC.

Academic Amnesty Policy and Procedures

See the Policy section in the Appendix of this catalog.

Applicability of Previous Catalogs

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 ones, 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/admissions/decision.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.

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 Sept. 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.

Dates of Application

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

Fall Semester:	April 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 **March 1**. Some academic units have earlier deadlines. Refer to those sections of the catalog.

Six-Year Med Program

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

PharmD. Program

Students interested in applying to the PharmD. program, should refer to the School of Pharmacy PharmD. Admission Page to get information on application deadlines.

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 on 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.

Students from secondary schools are expected to have a satisfactory secondary school record of a B grade or equivalent and proof of adequate English proficiency, as well as a written statement of purpose.

International transfer students from other colleges or universities of recognized standing 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.

Policies on admission from other colleges and universities as stated elsewhere will be applied. A \$50 application fee for new/renewal applicants is required. The 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: April 1*
Spring Semester: Oct. 1*
Summer Session: April 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. All materials must be in English. 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.

English Proficiency Requirement

International students are required to establish proof of adequate English proficiency as part of the admission process.

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 to satisfy this requirement. The minimum score is 500/173 CBT (Computer Based Test). Exceptions to this policy:

1. Non-native speakers from post-secondary institutions in English-speaking countries [e.g., the United States, Antigua, Australia, Bahamas, Barbados, Barbuda, Belize, Canada, Dominica, Fiji, Gambia, Ghana, Guyana, Ireland, Jamaica, Liberia, Maritius, New Zealand, Papua New Guinea, 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, and English was the medium of instruction.
2. Permanent residents who have resided in the United States for two or more years.
3. In lieu of TOEFL, UMKC accepts the placement recommendations of the ELS Language Centers.

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>).

Extended Offer of Admission

An offer of admission, granted on a regular basis for a given term, may be extended 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 an extended offer and for a specific term by contacting the International Student Affairs Office. This request should be made in writing well in advance of the term desired. Individual financial support documentation must be renewed annually.

Provisional Admission - International

The International Student Affairs Office 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 the International Student Affairs Office.

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 the International Student Affairs Office 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. The International Student Affairs Office should be contacted regarding forms and procedures.

Registration with International Student Adviser

Admitted international students must first report to the Office of the International Student Affairs 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 requirement are required to be evaluated (unless they have scored 600/CBT 250 or higher) 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.

Freshman Admission

Regular 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:

HSCR P	ACT Composite Standard Score	SAT V & M Standard Score
94 and above	17	800-830
86-93	18	840-880
78-85	19	890-920
69-77	20	930-960
62-68	21	970-1000
54-61	22	1010-1040
48-53	23	1050-1090
47 and below	24	1100 or higher

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.

Admission Enhancement Policy

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.

The University seeks a heterogeneous body reflecting diversity of race, ethnicity, age, geography (national and international) and physical ability. Factors given prime consideration for admission to undergraduate study are an applicant's previous academic success and the quality of the record submitted. Applicants who do not meet the criteria set forth above may be considered by applying to the director of admissions. Additional factors 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 in the form of an essay attesting to one or more of the above, written 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.

Application Forms

Online Application Forms on the Web

Online application forms for

- Undergraduate Students
- Transfer Students
- Graduate Students (Masters, D.M.A. and Counseling Psychology Ph.D.)
- International Students
- Visiting Students
- MD only

can be accessed by clicking on "Apply Now" and creating an account at <http://www.umkc.edu/admissions>.

Online application forms for

- Interdisciplinary Ph.D. Students

can be accessed by clicking on "Apply Now" and creating an account at <http://sgs.umkc.edu/iapply/index.asp>.

Application Forms and Other Information on the Web

Printable application forms for

- Undergraduate Students
- Transfer Students
- Graduate Students (Masters, D.M.A. and Counseling Psychology Ph.D.)
- International Students
- Visiting Students

can be found at <http://onestop.umkc.edu/forms.cfm>.

Printable application forms for

- Interdisciplinary Ph.D. Students

can be found at <http://sgs.umkc.edu/forms/index.asp>.

Transfer course equivalency tables can be found at <http://www.umkc.edu/registrar> and click on "Course Equivalency".

Scholarship information for non-U.S. citizens can be found at <http://www.umkc.edu/isao> by clicking on "Prospective Students" and "Scholarship Info."

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

Undergraduate Academic Regulations and Information

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>

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:

Karen E. Schlabach

Assistant Registrars:

Amy Cole

Nicole Woolsey

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Academic Calendar/Semester Hours

The University operates on the semester system with the academic year divided into the Fall and Spring semesters. Fall semesters start in August and end in December. Spring semesters begin in January and end in May. Summer terms vary in length during the months of June and July. Courses are occasionally offered during the periods between terms, in January, May and August, and these periods are called intersessions.

The unit of credit is the semester hour which represents a subject pursued one period weekly for one semester of approximately 16 weeks or for a total of approximately 16 periods for one term of any length. Normally, the lecture or recitation period is 50 minutes long and the laboratory/studio period is one hour and 50 minutes long. The typical class carries three semester hours of credit.

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

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 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.

Registration & Records Office

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.

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 for undergraduate credit will be classified as a senior.

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.

Course Numbering

Courses are numbered according to the following plan:

0000-0099	Remedial Courses (No college credit)
0100-0299	Lower Level Undergraduate Courses
0300-0499	Upper Level Undergraduate Courses (Some upper level courses may be taken for graduate credit)
0500-2999	Currently Not Used
3000-4999	Dental Hygiene Undergraduate Courses
5000-5999	Graduate Level Courses
6000-6999	School of Dentistry Courses
7000-7999	School of Pharmacy Courses
8000-8999	School of Law Courses
9000-9999	School of Medicine Courses

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.

Transfer and External Sources of Credit

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.

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

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 can provide more 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 exam and score are acceptable. (Note: UMKC awards credit for specific scores on certain Advanced Placement exams, administered by the College Entrance Exam Board, not simply for enrollment in advanced placement courses at the high school level. 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.

See <http://www.umkc.edu/registrar/creditbyexam.asp> for information on minimum scores needed on each exam to earn credit.

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. The department involved must be willing to offer 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. The charge for attempting credit by departmental exam is equal to 1 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. Oral Augmentation/Speech. Students must satisfactorily complete COMM-ST 110.

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

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.

Registration

Registration (Adds, Drops, Withdrawals)

Eligible students may register during the registration period that is announced in Pathway, the Registration Quick Guide 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.

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.

Additions

Students who want to add a class to their official term registration may do so at any time through the first week of classes. Those students who are not authorized to self-advise will have an advising hold in Pathway and must obtain the approval of their academic unit prior to adding classes.

Withdrawals

Students may withdraw from a course at any time between initial registration and the end of the 12th week of classes (fall and spring semesters). Students who are not authorized to self-advise must have the approval of the academic unit. After the eighth week, undergraduate 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 calculated in the grade-point average the same as a grade of F.

Official Withdrawals

Official withdrawals can 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 Office is closed or Pathway is down (for example, during a power outage) and you wish to receive a certain refund. The postmark on the envelope is used as the refund date.

Total Withdrawals

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>. If you received financial aid for the Summer/Fall 2008 semester you may be required to pay back all or a portion of the aid you received

Actions that are not considered official notification of withdrawal

- Assuming classes will be cancelled for nonpayment.
- 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.

Total Withdrawals

Students who withdraw from the University by dropping all hours during any given semester and who are receiving financial aid must contact the Student Loan and Accounting Office before withdrawal can be completed. Students must officially withdraw through the Registrar's Office. Failure to pay fees, failure to receive or refuse financial aid, giving notice to an instructor, or failure to attend class does not constitute an official withdrawal from UMKC.

Cancellation of Enrollment for Financial Delinquency

Classes are not automatically cancelled 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.

Grading Options and Auditing Courses

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.

Grading

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

Letter Grade	Description	Points per Semester Hour
A	The highest grade	4.0
A-		3.7
B+		3.3
B	Work of distinction	3.0
B-		2.7
C+		2.3
C	Average work	2.0
C-		1.7
D+		1.3
D	Passing, but unsatisfactory	1.0
D-		0.7
F	Failure without credit	0.0
NR	Not Reported	0.0
WF	Withdrew failing	0.0
W	Withdrew; no	-

	academic assessment	
I	Incomplete	-
AT	Audit	-
CR	Credit only	-
NC	No Credit	-
P	Passing	-
S	Satisfactory	-

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-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.

Academic Standing

Academic Standing

The Dean's List

At the end of each semester the names of full-time undergraduate students ranking in the upper 10 percent of their class for that term are announced and published on the permanent roll known as the dean's list. 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. Grade reports indicate students who are candidates for the dean's list.

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.

Academic Amnesty

The academic amnesty policy gives students who did not perform adequately in their undergraduate enrollment at UMKC a second chance to pursue their academic goals. The complete Academic Amnesty policy and procedures are printed in the appendix of the UMKC Undergraduate Catalog.

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.

Graduation

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.

Double Major and Double Degree

A *double major* may be earned when a student completes two 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 both majors. If the two degree programs are administered by different academic units, the major requirements of both academic units, as well as the general education requirements, must be fulfilled, as specified by the department or academic unit responsible for the primary degree. The double 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 this 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.

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 (www.umkc.edu/registrar/acal.asp). Notification also is posted and announced each semester prior to the test's administration. Students who wish to take the test must register and obtain preparatory materials from the English Department a few days prior to each test administration.

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 45 hours will not be allowed to take the test.

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

Undergraduate students who are approved by faculty and who graduate in the top five percent will be awarded their bachelor's degrees with Summa Cum Laude honors. Students in the next 5 percent will be awarded their bachelor's degrees with Magna Cum Laude honors, and students in the next 10 percent will be awarded their bachelor's degrees with Cum Laude honors. M.D., D.D.S., J.D. and Pharm.D. students are eligible to be awarded their degrees with Latin honors as determined by the Dean of their respective schools within the constraints of the Latin honors policy as established by the Faculty Senate.

Graduate Academic Regulations and Information

General 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:

Ronald A. MacQuarrie 

- Mission and Administrative Organization of Graduate Education
- Admission Policies and Procedures
- Graduate Academic Regulations
 - Academic Loads
 - Enrollment
 - Changes in Enrollment
 - Enrollment/Readmission Policy
 - Continuous Graduate Enrollment Requirement
 - Enrollment Classifications
 - Exceptions to Academic Regulations
 - Graduate Courses and Grading Policies
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- Master's Degrees Academic Regulations
- Doctoral Degree Programs (Ed.D., Ph.D., D.M.A.)
- International Graduate Applicant and Student Information
 - General Graduate Admission Policies for International Applicants
 - Deadline for Application for Admission
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- Special Institutional Regulations for International Graduate Students
- Intercampus Graduate Study Opportunities
 - UM Traveling Scholar Program
 - Cooperative Doctoral Degrees
- Potential Sources of Financial Support for Graduate Study
 - Graduate Teaching and Research Assistantships
 - Federally Supported Sources of Financial Aid
 - Institutionally Supported Fellowship and Award Competitions

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.

Academic Loads

Full-Time Academic Load Definition for Graduate Students without Assistantship Appointments

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. This designation of full time is for academic purposes only and does not apply to assessment of fees or degree program residency requirements.

Full-Time Academic Loads for Graduate Teaching and Graduate Research Assistants (GTAs/GRAs)

Full-time enrollment for students holding graduate teaching assistant or graduate research assistant appointments 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.

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 work load 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 by the Registrar's Office, a student must meet at least one of the following conditions:

- Enrollment in nine credit hours.
- Half-time (.5 FTE) GTA or GRA appointment and enrollment in six or more hours.
- Quarter-time (.25 FTE) GTA or GRA appointment and enrollment in seven 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 by the Registrar's Office, a student must meet at least one of the following conditions:

- Enrollment in five credit hours.
- Half-time (.5 FTE) GTA or GRA appointment and enrollment in three credit hours.
- Quarter-time (.25 FTE) GTA or GRA appointment and enrollment in five credit hours.

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

- Ph.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.

Financial Aid - Summer Term - Academic Load Requirements:

Graduate degree seeking students who are enrolled in the summer term are required to be enrolled in a minimum of 5 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. 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) are exempt from this requirement

Changes in Enrollment

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.

Enrollment/Readmission Policy

Until the time they have completed all coursework on their approved programs of study, 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.

Continuous Graduate Enrollment Requirement

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.

Enrollment Classifications

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 - (Code 6)* Degree-seeking graduate students admitted to a master's degree program without reservation.
2. *Conditional Master's Degree Seeking - (Code 6-V)*. 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 - (Code 7)*. Degree-seeking graduate students admitted to an Educational-Specialist degree program in the School of Education without reservation.
4. *Conditional Educational-Specialist Degree Seeking - (Code 7-V)*. 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 - (Code 8)*. Degree-seeking graduate students admitted to a doctoral degree program (Ph.D. or D.M.A.) without reservation.
6. *Conditional Doctoral Degree Seeking - (Code 8-V)*. 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 code 6-V, 7-V and 8-V 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 - (Code 6-H)*. 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 - (Code 6-C)*. 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 - (Code 6-G)*. This classification is used for two categories of students: (1) Community access, non-degree-seeking students wanting access to graduate level courses not available through

continuing education; and (2) Potential graduate applicants, not meeting requirements for conditional admission and wanting to take graduate-level courses in order to qualify for admission. The following restrictions apply to 6-G Classification graduate students:

- o Students apply to the academic unit, if declared. If undeclared, students are admitted as undeclared graduate students in the College of Arts and Sciences.
- o All graduate academic regulations apply.
- o Students must have a baccalaureate degree prior to admission.
- o Students are subject to the campus graduate academic probation and ineligibility policies.
- o Students with a 6-G classification are not eligible for financial aid.
- o International students may not be issued I-20 forms for admission under a 6-G classification.
- o International students considered under the 6-G classification must meet the University standards for evidence of English proficiency.
- o 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.
- o 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 6-G 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 6-G student.

All non-degree-seeking graduate students (6-C, 6-G and 6-H) 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.

Exceptions to Academic Regulations

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, are 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.

Graduate Courses and Grading Policies

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
- 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:

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

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.

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

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.

Candidates should print a copy of the approval page from the T/D on archival quality, acid-free paper meeting the requirements specified in the formatting guide, and take it to their T/D defense, and the supervisory committee members should sign the approval page in black ink. A copy of the approval page with the original signatures must be included in at least one copy of the T/D that is deposited in the libraries. The remainder of the manuscript should not be printed on the archival quality, acid-free paper until after the defense because the supervisory committee members may suggest final corrections or changes during the defense itself.

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 make final copies to deposit in the library. (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 prints two copies on archival quality, acid-free paper, as specified in the formatting guide. The final step in the process is deposit of these two, unbound copies of the T/D with the appropriate UMKC library. Theses and dissertations must be published on microfilm through ProQuest Information and Learning University Microfilms International (UMI) Dissertation Information Service. There is a fee for microfilming. As an added optional service, UMI will handle the copyrighting process for theses and dissertations, if desired. The libraries require payment for both the required and optional UMI fees, in the form of a cashier's check or money order made out to ProQuest Information and Learning, at the time of deposit. Candidates should check with the Reference Librarian to confirm the current amount of these fees. **Deposit 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.

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 Testing Center, (816) 235-**1635**, or by contacting the Educational Testing Service <http://www.ets.org>.

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.

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:
 - o Offered by an accredited school.
 - o Applied toward a graduate degree at the host institution and taken for graduate credit.
 - o 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 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 12 months of being fully 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

Interdisciplinary Ph.D. students who entered the program prior to the spring semester 2001 may choose to use the preceding residency requirement guidelines or the following guidelines that were in effect prior to that term: Three consecutive semesters (fall-spring-fall or spring-fall-spring) or three consecutive terms including one summer session (a fall and spring semester plus one adjacent summer session) of full-time enrollment after full admission to the program. In general, nine hours in a fall or spring semester or five hours in a summer session is considered full-time enrollment for graduate students. The following are several exceptions to this general rule:

- For purposes of fulfilling the Ph.D. residency requirement, six hours enrollment in the fall or spring and three hours enrollment in the summer will be considered full-time enrollment for a Ph.D. student with at least a .25 FTE GTA/GRA appointment.
- For purposes of fulfilling the Ph.D. residency requirement, six hours enrollment in the fall or spring and three hours enrollment in the summer will be considered full-time enrollment for Ph.D. students who are UMKC employees, with academic appointments of at least .5 FTE.
- The credit-hour requirement to be classified as a full-time student and to satisfy the Ph.D. residency requirement for students who hold full-time teaching appointments at regionally accredited four-year institutions of higher education will be the same as for students holding a GTA/GRA appointment at UMKC.

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

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 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:

- o 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.
 - o 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

The Educational Testing Service
Princeton, NJ 08541, U.S.A.
<http://www.ets.org>

For IELTS contact

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

Detailed information can be obtained from U.S. embassies, consulates general, bi-national centers and other offices throughout the world.

Deadline for Application for Admission

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. Generally, international students applying from overseas will be considered for admission to the fall semester only.

Required Academic Records for International Applicants

Applicants must provide complete and official certificates, in English, of all degrees, diplomas, mark sheets, grade reports and examination records. Secondary school records must be submitted in all cases in addition to the college/university transcripts or credentials.

Student Financial Statement

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.

Additional Information and Forms

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

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://onestop.umkc.edu/forms.cfm>.
- 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.

At UMKC, the following standards are in effect for graduate students whose first language is not English and who wish to be considered for graduate teaching assistant (GTA) appointments:

- They must have been enrolled at UMKC at least one term prior to receiving a GTA appointment.
- They must have attained a minimum official TOEFL score of 550/cbt 213.
- They must take the SPEAK (Speaking Proficiency English Assessment Kit) test and receive a score of 52 or higher. This test is offered once, at no charge, through UMKC's Applied Language Institute (ALI) to graduate students whose first language is not English and who have attained the required minimal TOEFL score of 550/cbt 213.
- If they have not previously lived in the United States, they must participate in the cultural orientation program provided by the School of Graduate Studies. The orientation covers policies and procedures pertaining to teaching and grading; a profile of UMKC's student body; an introduction to degrees offered at UMKC; an overview of the U.S. system of higher education and teaching strategies and techniques. The orientation program is held over several days during the week prior to the beginning of classes for the fall semester.
- Early in the fall semester, they must present a simulated 8-10 minute lecture or laboratory demonstration that will be videotaped for review and approval of their verbal communication skills by the dean or director of the programs in which they will have a GTA appointment and by the School of Graduate Studies.

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 SPEAK test through the ALI office, which is located at 5301 Rockhill Road. To schedule SPEAK tests, students may call (816) 235-**1233**. This phone has a voice message box; students should leave a name and phone number if no one is present to take their call.

For information on dates, or to register for the next Cultural Orientation series, contact the School of Graduate Studies (816) 235-**1161**.

If students do not make the required minimum score on the first taking of the SPEAK test, or if their videotaped simulated lecture is not approved, they must enroll in ENGLISH 300F Special Studies in Culture Research and Pedagogy for IGTAAs. This one-credit-hour course is offered during the last eight weeks of each fall term. If students do not make the required minimum score on the SPEAK test when it is re-administered during ENGLISH 300F, they must then enroll in the three-credit-hour course, ENGLISH 300F: Academic English/International Grad Teaching Assistants and Applicants in a subsequent semester.

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.

UM Traveling Scholar Program

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:
 1. 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.
 2. 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.

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
[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>.

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.

Division of Student Affairs

Division of Student Affairs and Enrollment Management

Office of the Vice Chancellor
[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 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 goals.

This office provides overall leadership for a comprehensive program of student services through 18 service units and 13 academic/student affairs liaisons. Descriptions of divisional departments, as well as academic liaison areas are as follows.

- Departments
 - Office of Admissions
 - Career Services
 - Center for Academic Development
 - Counseling, Health and Testing Center
 - Financial Aid and Scholarships Office
 - HelpLine
 - Institute for Professional Preparation
 - International Student Affairs
 - Multicultural Student Affairs
 - Registration and Records
 - Residential Life
 - Student Disability Services
 - Student Health and Wellness
 - Student Life
 - Activity and Program Council (APC)
 - Associated Students of University of Missouri (ASUM)
 - Campuswide Honor Societies
 - Clubs and Organizations

- Community
- Departmental Honorary and Professional Societies
- Leadership Programs
- LGBT Programs and Services
- Parents' Council
- Social Fraternities and Sororities
- Student Government Association (SGA)
- University News
- Swinney Recreation Center
- University Center
- Welcome Center
- Women's Center
- Student Affairs Offices Located in Academic Units
 - College of Arts and Sciences
 - Henry W. Bloch School of Business and Public Administration
 - 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

Office of Admissions

Office of 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: Jennifer E. DeHaemers  

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 students to undergraduate, graduate and professional programs at the University of Missouri-Kansas City. Applicants to the School of Law and School of Dentistry should refer to those sections of the catalog. International students should apply through the International Student Affairs Office.

Recruitment

The office also coordinates the recruitment of students to undergraduate programs. Staff participate in a number of recruiting activities across the state of Missouri, including college fair programs, high school visits, community college visits and employer sponsored career fairs. Requests for information about UMKC and its academic programs are handled through the mailing services of the Office of Admissions. E-mail us at admit@umkc.edu for information.

Orientation

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, optional for transfer students and includes initial academic advising.

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, an academic adviser in their area of interest and the Financial Aid and Scholarships Office. Customized tours are also available for groups or individuals who have specialized interests or needs.

Career Services

Career Services

[4825 Troost Avenue](#) , Suite 205

(816) 235-**1636**

Fax: (816) 235-**5534**

careerservices@umkc.edu

<http://www.career.umkc.edu>

Director: Candice Stice  

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. A&S 170 (PACE) Career and Life Development is offered every spring semester for three credits.

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 can find part-time jobs, internships and cooperative education programs to supplement their income, as well as gain work experience while in school. Visit our Web site (www.career.umkc.edu) and watch the [University News](#) for activities sponsored by Career Services and for on-campus recruiting schedules.

All students preparing for graduation can be a part of the employment database and on-campus recruiting program. This provides immediate and direct access to full-time career opportunities. Full-time and part-time positions, internships and on-campus interviewing information can be accessed from our Web site.

Career Services also provides a full range of career planning and development services for alumni of the University

of Missouri system, alumni of other colleges and universities and the community. An employment database provides information on full-time jobs that are available to registrants. For additional information, call (816) 235-1636.

Center for Academic Development

Center for Academic Development

[SASS](#) , Room 210
5014 Rockhill Road
(816) 235-1174
Fax: (816) 235-5156
cad@umkc.edu
<http://www.umkc.edu/cad>

Director: Glen Jacobs 

The Center for Academic Development (CAD) offers a wide range of services and programs to students from 8 a.m.-5 p.m. Monday through Friday and at other times by appointment. The center's services 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 and 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 technical assistance 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.

Upward Bound

Project First/Upward Bound is a federally funded TRIO program authorized by Congress through the Higher Education Act. Upward Bound provides tutorial sessions, college and academic advising, spring break college tours, ACT/SAT workshops, financial aid workshops, student leadership conferences and a six-week summer residential experience to first-generation/low-income high school students. UMKC Upward Bound has produced alumni that have completed graduate school, are currently enrolled in medical school, law school, or are in successful careers.

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.

Jumpstart

Jumpstart Kansas City is a local affiliate site of Jumpstart for Young Children, Inc. This campus-based AmeriCorps

program recruits, trains and pairs work-study supported college students with preschool children in Head Start and other low-income early learning programs. Throughout the school year and through a special summer program, college students help preschool children develop the skills needed to be successful in school. Jumpstart focuses on promoting school success for young children, encouraging strong family involvement and training college students to be future teachers and leaders.

Math Resource Center

The Math Resource Center (MRC) is dedicated to providing individual attention to math students, and to increasing retention efforts. The MRC is staffed by trained part-time tutors who offer assistance to UMKC students at no additional cost. Students may work individually or in small groups with tutors. Textbooks, solution manuals, videotapes, content-specific handouts and study guides are also available.

UMKC Trustees' Scholars Program

The Center for Academic Development (CAD), in conjunction with the UMKC Trustees, Offices of Admissions, Financial Aid, Residential Life and other Student Affairs departments, coordinates the UMKC Trustees' Scholars Program. The UMKC Trustees' Scholars Program is an exciting scholarship that provides a fully funded, full educational and experiential program to a select group of 10 entering freshman seeking an undergraduate degree at UMKC. Students must meet two of the three academic criteria: 3.0 or higher ACT, top 5 percent of his/her high school class and/or a 3.5 cumulative high school GPA in the core unit curriculum. In addition, all recipients are evaluated on their proven community or school involvement and leadership ability.

Counseling, Health and Testing Center

Counseling, Health and Testing Center

[4825 Troost Avenue](#) , Suite 206

(816) 235-**1635**

Fax: (816) 235-**5534**

<http://www.umkc.edu/chtc>

Director: Marita Barkis, Ph.D.

The Counseling, Health and Testing Center combines multiple services to promote the emotional, mental and physical well-being and academic success of the campus community. Dr. Barkis is the executive level director over all these services and the Director to the Counseling and Testing Center. The Counseling and Testing services are described in detail below and links are provided to all other service area descriptions.

Counseling

[4825 Troost Avenue](#) , Suite 206

(816) 235-**1635**

<http://www.umkc.edu/chtc/counseling>

Associate Director of Counseling: Arnold Abels, Ph.D.

The Center provides confidential personal counseling services for students and University employees. Consultations with students, faculty, staff and parents are available.

Counseling services are provided by licensed psychologists, consulting psychiatrists and pre- and post-doctoral interns, as well as master's and doctoral practicum students in psychology.

Individual and relationship counseling are the most frequently used services. Counseling for couples is available when one or both partners is affiliated with UMKC. Individual counseling can focus on such concerns as depression, procrastination, anxiety, eating disorders, loss, loneliness, indecision, academic problems, crisis intervention, stress management and the development of better social skills. Relationship counseling focuses on improving or understanding relationships like those between roommates, friends, partners, spouses, parents and children. Counseling

offers opportunities for people to understand themselves better, to manage emotional problems and to grow in their ability to be effective in relationships with others.

A variety of group counseling services are also offered. Groups are often open to anyone and may be for general emotional enhancement or for a specific focus like stress reduction or eating disorders.

Psychological assessment services are offered by the center to help clients better understand their emotional or learning concerns. The Assess for Success program specifically assesses learning concerns and attention deficit disorder. Call and ask for the Assess for Success program for more information.

The Center offers workshops and presentations for students and staff on a variety of topics. Student organizations that have program needs can contact the office.

The Alcohol and Drug Coordinator for the campus offers related individual services, assessments and outreach programs. The Coordinator can be acontacted at x5352.

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

All students, faculty and staff are eligible for services. Students receive up to eight free counseling sessions every 12 months and additional sessions are \$15/hour. Faculty and staff can receive services for \$20/hour. Reduced fees are charged for testing. There are limited hours on Hospital Hill. Call (816) 235-**1635** for an appointment or additional information.

Testing

[4825 Troost Avenue](#), Suite 206
(816) 235-**1635**
<http://www.umkc.edu/chtc/testing>

Associate Director of Testing: Jim Wanser

Administrative Assistant: Shannon Justice

The Center offers a full range of testing services to both students and community constituents. Services include the administration of all exams offered through PROMETRIC, including the GRE, TOEFL, MCAT, CPA, USMLE, etc. In addition, the ACT, PCAT, LSAT, MAT, and C-Base are routinely offered for admission requirements. For licensure and certification, the PRAXIS and CFP are offered on all national test dates. Students frequently use the CLEP program, as well as test proctoring services for correspondence, on-line, or distance education courses.

The Center also offers Microsoft Office Specialist exams that are utilized by the Bloch School of Business. University exit exams (MAPP and Major Field Exams) are also administered through the TestingCenter.

The Testing Center is open Tuesday through Saturday from 7:30 am to 4:30 pm. All tests are administered by appointment on space available bases. 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. Test registration is typically on-line or through the TestingCenter at (816) 235-**1635**. Metered parking is available for those without permits.

MindBody Connection

[University Center](#), Rm 161
5000 Holmes Street
(816) 235-**5169**
mindbody@umkc.edu
<http://www.umkc.edu/chtc/mindbody>

Coordinators: Bill Smith, Health Educator and Dr. Rachel Pierce, Outreach Coordinator

The MindBody Connection is a collaboration of the Counseling Center and Student Health and Wellness. The suite in the University Center provides students with educational and supportive services that enhance their skills related to physical, mental and emotional health, all in support of their academic success. Currently, services include a Relaxation Station with massage chair, stress management biofeedback software, online health assessments, and programs related to health and well-being. For more information about the MindBody Connection, visit the suite or www.umkc.edu/chtc/mindbody or email mindbody@umkc.edu.

Student Disability Services

[University Center](#), room 131
5000 Holmes Street
(816) 235-**5696**
Fax: (816) 235-**6363**
disability@umkc.edu
<http://www.umkc.edu/disability>

Assistant Director: R. Scott Laurent

For more information, see the Student Disability Services 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: Sandra Handley, R.N., Ph.D., B.C., F.N.P.

For more information, see the Student Health and Wellness section.

Financial Aid and Scholarships Office

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>

Director: Jan Brandow 

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), but aid for late spring or 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 progress 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 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 Web site: <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. 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 Web site at <http://www.umkc.edu/finaid>.

Institute for Professional Preparation

Institute for Professional Preparation

5310 Harrison Street
(816) 235-1196
ipp@umkc.edu
<http://www.umkc.edu/ipp>

Director: Jane Jolley 

The Institute for Professional Preparation, founded in 1981, maintains the goal of training students to use scientific knowledge, the scientific method, logic and the application of higher order thinking skills for academic success. The Institute prepares medical students for their national board licensure examinations (USMLE Step 1, Step 2 and Step 3) and specialty board examinations. The Institute also provides preparation programs for the ACT, GRE, LSAT, and PCAT examinations.

The technique of Supplemental Instruction is the cornerstone for the instructional methods used in the IPP medical student programs. The institute serves as a consultant with allopathic and osteopathic medical schools in program development, both nationally and around the world.

International Student Affairs

International Student Affairs

[International Student Affairs Office](#)

5235 Rockhill Road
Tel: (816) 235-1113
Fax: (816) 235-6577
isao@umkc.edu
<http://www.umkc.edu/isao>

Director: Sandy Gault

This School is authorized under Federal Law to enroll nonimmigrant students. The International Student Affairs Office (ISAO) directs and coordinates the recruitment and admission of all UMKC nonimmigrant visa holders. ISAO ensures that international students have a successful and productive experience at UMKC and in Kansas City, promotes and supports cultural opportunities that benefit the UMKC community and ensures adherence to institutional and federal regulations.

Programs and support services provided by this office include the following: arrival and housing services, host individual and family programs, post-arrival and predeparture orientation for international students and scholars, visa advising, international practical training assistance, referral to campus services, liaison with academic advisers, monthly newsletters, support for the International Student Council, campus nationality groups and social and cultural programming.

Individuals who have been granted **asylum** or **refugee** status in the United States and individuals who have been granted lawful **permanent resident** status should apply for admission through the UMKC Admissions Office located in the Administrative Center. Along with their application for admission, these individuals should submit a copy of their I-94 arrival card (for asylum or refugee) or permanent resident card (green card) as evidence of their status. A copy of the Employment Authorization Document (EAD card) will not be considered as proof of permanent resident status.

UMKC applicants and students will be considered as international students if they entered the United States on a nonimmigrant visa and have a permanent resident application pending with U.S. Immigration.

Multicultural Student Affairs

Multicultural Student Affairs

University Center, room 160
Phone: (816) 235-1109
Fax: (816) 235-5645
msa@umkc.edu
<http://www.umkc.edu/msa>

Director: Catherine Kironde-Ross  

The mission of the Multicultural Student Affairs office is **to enhance and improve the college experience of students of color**. This mission is accomplished by:

- Maintaining an open door policy.
- Interacting with and assisting students, informal mentoring and coaching assisting students locate and utilize campus resources.
- Planning a variety of activities and events throughout the academic year that stimulate educational, cultural and social growth. These activities include panel discussions, lectures and traditional events such as African American History Month, 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), NSBE (the National Society of Black Engineers), NAACP (the National Association for the Advancement of Colored People) and NPHC (the National Pan-Hellenic Council).
- Encouraging and supporting students to get involved in campus activities and organizations and to take advantage of the many leadership opportunities available on campus.
- 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 simply 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 throughout the year. Recent events include *Kids Day at the Culture House*, *Lunch with Edward P. Jones* and *Let's Talk about Hair*. The Culture House Gallery highlights the works of local artists. During the 2007-08 academic year, the Culture House Gallery hosted the following exhibits: *They Came to Fight*, *Carnival* and *Dolls*.

For more information about Multicultural Student Affairs, visit our Web site at <http://www.umkc.edu/msa>.

Office of the Registrar

Office of the Registrar

[Administrative Center](#) , Room 115
5115 Oak Street
(816) 235-1213
Fax: (816) 235-5513
registrar@umkc.edu
<http://www.umkc.edu/registrar>

Registrar: Douglas E. Swink

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.
- Issuance 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 Veterans Certifying Official in Registration and Records must be contacted for certification of enrollment for the Department of Veterans Affairs and should be notified of changes in enrollment. Failure to do so can result in overpayments or the failure to receive benefits. It is the responsibility of the students to contact this office for services or information. The phone number is (816) 235-**1123**.

Residential Life

Residential Life

Residential Life Business Office
[Cherry Street Residence Hall](#), Room 109
 5030 Cherry Street
 (816) 235-**2800**
 Fax: (816) 235-**5227**
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: Eric Grospitch 

Residence Halls

All of UMKC's residential facilities are conveniently located on the west side of campus, near the University Center (cafeteria), Swinney Recreation Center and within easy walking distance to all other Volker campus buildings. UMKC's newest facility is Oak Place Apartments, 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. In addition to the apartments, Oak Street Residence Hall, a 561-bed hall designed into 11 community areas. This residential community features 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. The Cherry Street Residence Hall, housing up to 326 students, also offers many recreational and student-oriented amenities, as well as a computer lab. Both UMKC residence halls have Ethernet hook-ups for every student, cable television hook-ups and microwave/refrigerator units all in student rooms.

Student Disability Services

Student Disability Services

[University Center](#) , room 131
5000 Holmes Street
(816) 235-**5696**
Fax: (816) 235-**6363**
disability@umkc.edu
<http://www.umkc.edu/disability>

Assistant Director: R. Scott Laurent 

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.

Student Health and Wellness

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: Sandra Handley, R.N., Ph.D., B.C., F.N.P. 

Student Health and Wellness provides health care and wellness services to UMKC students. Student Health provides assessment of acute and chronic health problems and treatment and/or referral as appropriate. In addition to illness-based services, other health services include: well-woman exams, blood pressure measurement, contraceptive counseling, first aid (non-emergent), immunizations (Hepatitis A and B, meningitis, MMR, tetanus and flu shots in season), physical examinations, STD testing, allergy injections with student-furnished serum and tuberculosis screening.

Student Health is open daily, appointments are requested. Walk-ins may be accepted on a space-available basis. To determine whether a visit is needed, a student may contact Student Health at (816) 235-**6133** or studenthealth@umkc.edu to discuss symptoms. Selected health information is also available at <http://www.umkc.edu/chtc/health>.

Student Health personnel include nurse practitioners, registered nurses and administrative personnel. When a health problem requires resources beyond Student Health, personnel will assist the student with an appropriate referral.

There is no charge to UMKC students for a Student Health visit, however, additional services or laboratory testing may involve a charge. Students will be made aware of any charges before they are incurred. Charges may be paid with cash, check or charged to the student's UMKC account.

Health promotion services include informational brochures, updated web information, health fairs, and classroom presentations. A student desiring specific health information may contact Student Health and Wellness by phone or e-mail.

A part-time pharmacy is also available at Student Health. The pharmacy carries a variety of medications. Prescriptions can be paid for with cash, check or charged to a student account. For further information or specific questions, call the pharmacist at 816-235-6103.

Student Health can be accessed by UMKC shuttle. Metered parking is also available outside the building (75 cents/hour).

Student Life

Student Life

[University Center](#) , Room G6

5100 Rockhill Road

(816) 235-**1407**

Fax: (816) 235-**5590**

stulife@umkc.edu

<http://www.umkc.edu/stulife>

Interim Director: Shelby Coxon

Hours

Monday- Thursday	8 a.m. - 6 p.m.
Friday	8 a.m. - 5 p.m.

College is more than classrooms. The Student Life Office is UMKC's central resource for co-curricular and extracurricular involvement, making the University experience more educational, more interesting and most importantly, more fun. The mission of the Student Life Office is to provide services and programs that are responsive to student development through the social, cultural, recreational, educational and lifelong learning needs of the campus and surrounding community.

The campus programs at UMKC give an added dimension to students' academic experiences by offering opportunities for personal development and growth. There are many opportunities to participate in campus activities sponsored and funded by various student organizations. In addition to advising student councils, student government and more than 260 campus organizations in their programming efforts, the office also is responsible for administration of the student activity budget, leadership education programs, various publications, Communiversy and all Greek organizations. LGBT Programs and Services improves the quality of lesbian, gay, bisexual and transgender students' college experience by enhancing their personal and academic development and success, offering a source of support, facilitating social interaction in a safe environment, fostering a sense of belonging, promoting leadership skills and raising awareness and educating the campus about LGBT history and culture. Questions regarding any of these activities, including student conduct issues, may be directed to the Student Life Office staff at the above number. For more information, visit <http://www.umkc.edu/stulife>.

Activity and Program Council (APC)

As part of UMKC's emerging future, the Activity & Program Council plays an integral role in bringing the vision, mission and values of the university to life. Student activities are essential to creating a vibrant campus life experience. The high quality programs provided by the student programming board allow students to engage in *Energized Collaborative Communities* that focus on *Diversity, Inclusiveness and Respect* while teaching the value of *Integrity and Accountability*.

The purpose of the Activity & Program Council is to provide quality, social, educational and entertainment-based activities and programs to the UMKC student body and community that address emotional, intellectual, occupational, physical, social and spiritual well-being.

The Activity & Program Council strives to build school spirit and to provide individual students with opportunities in leadership development, programming, and arts and events management. For more information about the Activity & Program Council, visit <http://www.apcactivities.com> or call (816) 235-**1457**. The Events Hotline is (816) 235-**1212**.

Associated Students of University of Missouri (ASUM)

This is an organization that represents and advocates the interests and welfare of Missouri students before the General Assembly, the Board of Curators, the Governor and other executive agencies.

ASUM sponsors a variety of programs on campus throughout the year to increase student awareness and involvement in the legislative process. To contact ASUM call (816) 235-**1231**.

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 a 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

A wide variety of interests -- cultural, educational, recreational and social -- can be pursued through involvement in the more than 260 campus clubs and organizations. Students can extend classroom studies or foster new interests as members of student organizations. They can also build lasting friendships, receive academic encouragement or play a part in the functioning of the University as a student government officer. To obtain more information, visit <http://www.umkc.edu/stulife> or call (816) 235-1407.

CommUniversity

(816) 235-1448

<http://www.umkc.edu/commu>

CommUniversity is an informal learning program offering non-credit courses to UMKC students for free, and the Greater Kansas City community for a small fee. More than 900 classes are offered each year by volunteers from the campus and community. Classes range from art and health to outdoor adventure and psychic topics. Call (816) 235-1448 for a free schedule of classes.

Departmental Honorary and Professional Societies

Several academic disciplines offer honor societies that select members on the basis of grades and class standings. In the College of Arts and Sciences, the departments of sociology/criminal justice and criminology, communication studies, economics, English, geosciences, history, physics, political science and psychology all have national honorary organizations. The schools of Biological Sciences, Business and Public Administration, Conservatory and Dance, Dentistry, Education, Engineering, Law, Medicine and Pharmacy offer both honorary and professional societies. There are also honorary organizations designated specifically for students in the Greek system and international and non-traditional students. For specific membership requirements, contact the academic department listed or the Student Life Office.

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.

Leadership Programs

Students lead UMKC. The Student Life Office is committed to helping students discover and develop their abilities to lead themselves, their organizations and the University. First-year students can participate in the Emerging Leaders program, an intensive non-credit course exploring theoretical and practical applications of leadership. Under the auspices of the Involvement Challenge, each fall students attend Ropes Courses, challenging themselves to overcome physical and mental obstacles while developing team leadership skills. At advanced levels, students can explore leadership across cultural boundaries in the Multicultural Leadership Workshop, engage key University-level leadership issues with administrators at the Vice Chancellor's Leadership Consortium and put their leadership into practice through service to the Student Government Association and school councils. Finally, the following are programs that enhance students' leadership experience - International Student Leadership Workshop, Graduate Student Leadership Workshop, Noodles at Noon Series and the Outside the Box Series. For more information visit <http://www.umkc.edu/stulife> or call (816) 235-1407.

LGBT Programs and Services

[University Center](#) , Room G7
5000 Holmes Street
(816) 235-**1639**
Fax: (816) 235-**5522**
lgbtoffice@umkc.edu

Program Coordinator: David Greene 

We aim to provide a safe, supportive and welcoming environment for all lesbian, gay, bisexual, transgender (LGBT) and heterosexual ally individuals. Through our campus-based programming we aim to further the personal growth and academic success of LGBT students, while educating and raising awareness among non-LGBT campus constituents. The UMKC Safe Space Training Program provides resources and information on creating safe and inclusive environments for LGBT people. In collaboration with the Office of Residential Life, the LGBT Housing Liaison is a para-professional student who lives onsite in the residence halls and provides educational programs, social activities, and support for LGBT residents. The LGBT Lounge in G7 University Center features comfortable sofas, complimentary coffee and tea daily (8 a.m. - noon), computers with internet access, wireless capabilities, LGBT magazines and journals, as well as a large and diverse collection of LGBT books, texts and films available for check out, friendly and knowledgeable staff and access to information and resources on a wide range of LGBT topics. A resource kit is available for check out to educators in the Kansas City so that they may enrich their curriculum.

Parents' Council

The UMKC Parents' Council is made up of parents of UMKC students who want to make a difference in their students' lives by taking an active role in the University. The council serves as the communicative liaison between fellow parents of UMKC students and the University. The primary purpose of the Parents' Council is to give parents an opportunity to engage with UMKC and includes developing a closer relationship between UMKC, its students and their parents; keeping parents informed about UMKC activities and events shaping the campus; provide a forum for concerns to be voiced to UMKC leadership; bringing facts about UMKC to an extended audience of prospective students and the general public; support all students education and provide contacts with UMKC employees. For more information, contact the Student Life office at (816) 235-**1407**.

Social Fraternities and Sororities

Fraternities and sororities incorporate nearly every aspect of student development, from social events to leadership training to character edification. The Student Life Office, through direct advising to the chapters, helps UMKC's chapters become increasingly stronger and more vital components of campus life. The Greek Leadership Institute provides programming to ensure the chapters live to their ideals of philanthropy, education, involvement, character and tradition.

Currently, UMKC has 13 national social fraternities and sororities. There are also two local sororities, Delta Rho and Beta Sigma Phi, and a Latin fraternity, Lambda Theta Phi. The national groups are members of one of three governing bodies for Greeks at UMKC.

The Panhellenic Council is an association of the national social sororities for women, which at UMKC includes Alpha Delta Pi, Chi Omega and Delta Zeta. Their primary recruitment season is during the fall semester.

The Interfraternity Council is comprised of four men's fraternities: Beta Theta Pi, Lambda Chi Alpha, Sigma Alpha Epsilon, and Sigma Phi Epsilon. Recruitment is held throughout the school year.

The National Panhellenic Council is comprised of members from the sororities of Alpha Kappa Alpha, Delta Sigma Theta and Sigma Gamma Rho, and the fraternities of Alpha Phi Alpha, Phi Beta Sigma, and Kappa Alpha Psi. Their primary recruitment is held during spring semester, January through May.

Student Government Association (SGA)

This student governing body is composed of the following elected officers - president, executive vice-president, administrative vice-president, comptroller and representatives from all of the academic units and the Residence Hall. This governing body is involved in student concerns, elections, student publications and the student fee allocation process.

Each academic unit has a council to serve the needs of the students in that area. The council elections are held annually.

For more information visit <http://www.umkc.edu/sga> or call (816) 235-1426.

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.

Swinney Recreation Center

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>

Director: Marsha Pirtle

Swinney Recreation Center includes the following:

- A 25-meter indoor/outdoor pool.
- A 1/8-mile indoor track.
- A 1/4-mile competitive outdoor track.
- Handball, racquetball and squash courts.
- A fitness training center.
- A wellness center.
- Numerous aerobic training machines.
- Five multipurpose courts.

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.

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. For students, faculty/staff and SRC members, activities range from aerobics and swimming lessons (group or private).

University Center

University Center

[University Center](#)

5000 Holmes Street

(816) 235-**1411**

Fax: (816) 235-**1419**

<http://www.umkc.edu/ucenter>

Director: Jody Jeffries

The University Center is the center for co-curricular activities on campus. It houses a computer lab and e-lounge, campus dining services, conference and meeting rooms, bookstore, Campus Information Center, barber shop, catering services, and an ATM. The Center also houses some administrative and student services offices, such as the Student Life Office, Multicultural Student Affairs, Student Government Association, Student Disability Services, and the MindBody Connection.

Many campus meetings and activities take place in the University Center including films, lectures and special events.

Welcome Center

Welcome Center

[Administrative Center](#) , Room 120

5115 Oak Street

(816) 235-**8652**

(800) 775-8652

Fax: (816) 235-**5544**

welcome@umkc.edu

<http://www.umkc.edu/welcome>

Manager: Sydney Rogers

Located in the Office of Admissions, the Welcome Center is the central location for greeting campus visitors. Staff schedule campus visits for prospective students and their families. Campus visits usually include a tour and an opportunity for visiting students to meet with an Admissions representative, as well as an adviser in their area of academic interest. Customized tours also are available for groups or individuals who have specialized interests or needs.

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>

Director: Brenda L. Bethman

The mission of the Women's Center at the University of Missouri-Kansas City is to advocate, educate, and provide support services for the achievement 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;
- Coordinates the UMKC Violence Prevention and Response project by offering support services, referrals, advocacy, and educational and prevention programs around issues of gender violence. This project is funded by a grant from the Office on Violence Against Women in the U.S. Department of Justice;
- 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.

Student Affairs Offices Located in Academic Units

College of Arts and Sciences

Office of Associate Dean for Student Affairs
[Scofield Hall](#), Room 313
711 E. 51 Street
(816) 235-**2534**
<http://cas.umkc.edu>

Associate Dean: Thomas C. Sandreczki [Conta](#)

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.

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 Life, etc.

Henry W. Bloch School of Business and Public Administration

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

Student Services -- Computer Science Electrical Engineering

Anna Simmons
556 Flarsheim Hall
(816) 235-**5661**
simmonsal@umkc.edu
<http://www.csee.umkc.edu/>

Student Services -- Civil and Mechanical Engineering

352 Flarsheim Hall
(816) 235-**5550**
cme@umkc.edu
<http://www.sce.umkc.edu/cme>

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.

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

The School of Computing and Engineering also participates in UMKC's Interdisciplinary Ph.D. program. For more information visit <http://sgs.umkc.edu>.

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: Ginny Miller

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.

School of Graduate Studies

Office of Student Affairs
[Administrative Center](#), Room 348
5115 Oak Street
(816) 235-**1161**
graduate@umkc.edu
<http://sgs.umkc.edu>

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, processes requests for graduate student travel support 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 inquires 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>

Director of Law School Admissions:
Debbie Brooks (brooksdv@umkc.edu)
Director of Student Support Services:
Nicole Francis (francisn@umkc.edu)
Director of Law School Career Services:
Gerald Beechum (beechumg@umkc.edu)

The Dean's Office at the School of Law performs various activities that affect potential or current students. These activities include: recruitment, admissions, student records, academic advising and counseling, course scheduling, registration, designation of scholarship recipients, retention, career services and other support services.

The Assistant Dean supervises Law School admissions, career services and student support services. This office relates on a day-to-day basis with students, administrators and staff in student affairs and various other departments, including Financial Aid and Scholarships, Registration and Records, Campus Police, Cashier's Office and the University Counseling and Testing Center. Prospective students should direct their inquiries to the Director of Law School Admissions. The Director of Student Support Services is available to address the questions and concerns of current students. The Director of Law School Career Services provides assistance to current law students and graduates seeking summer, part-time and permanent employment.

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 Office of Student Affairs at the Medical School provides a variety of support services to meet the needs of currently enrolled students and graduates of the School of Medicine. The staff work in close conjunction with the Financial Aid and Scholarships Office in assisting students in finding additional sources of support through extramural scholarship and loan programs. The Office of Student Affairs staff works closely with student organizations and interest groups in support of ongoing activities, special events and projects.

The staff provide career information to students and counsels and assists students in applying for postgraduate residency training programs.

Other student services include: serving as liaison for student reports with the Association of American Medical Colleges, National Resident Matching Program and National Board of Medical Examiners; providing letters of recommendation for extramural electives, residencies, fellowship programs and scholarships; student honors and awards; and alumni support services.

Student Affairs also coordinates the academic advising for students. There is an office for first and second year students on the Volker Campus that facilitates registration and scheduling as well as a learning resource specialist for instruction in learning basic medical sciences, supplemental instruction and tutoring. There are educational team coordinators for the third through sixth year students who facilitate scheduling and registration, as well as serving as liaisons with the core clerkships. There is also a learning resource specialist for this group who primarily works with step one preparation, as well as assistance in the basic science courses in year three.

Conservatory of Music and Dance

Office of the Associate Dean
[Grant Hall](#), Room 138
5228 Charlotte Street
(816) 235-**2900**
conservatory@umkc.edu
<http://conservatory.umkc.edu>

The Office of the Associate Dean at the Conservatory of Music and Dance provides registration assistance, as well as advising, admissions and scholarship information to all prospective, admitted and currently enrolled graduate and undergraduate students. Three additional staff members in the Associate Dean's Office are the student services coordinators for the Conservatory. These coordinators assist undergraduate and graduate students with curricular and co-curricular concerns and act as liaisons with other University offices.

Information needed to complete your admission or enrollment process can be obtained in the Office of the Associate Dean. Students can get add/drop forms, advisers' signatures and petition/appeals forms 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>

Manager 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 degree programs leading to the Bachelor of Science in Pharmaceutical Sciences, Doctor of Pharmacy and graduate level degrees in pharmaceutical sciences and pharmacology.

Student support services include academic advising, short-term counseling referral, assistance in identifying scholarships, financial aid, and part-time employment, remediation and retention programs, records retention, registration and progression, assistance to student organizations with professional projects. 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.

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, course and instructor evaluations, admissions and retention policies and the faculty advising process.

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**

Reference (816) 235-**1534**

Access Services (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 Staff Directory](#)

Dean of Libraries:

[Sharon L. Bostick](#)

Associate Dean of Libraries:

[Bonnie Postlethwaite](#)

Advancement Officer:

[Mark Mattison](#)

Assistant Director for Administrative Services:

[Jennifer L. Eigsti](#)

Director of Technical Services and Collections:

[Brenda L. Dingley](#)

Director of Health Sciences Libraries:

[Peggy Mullaly-Quijas](#)

Head of Reference Services and Library Instruction:

[Diane Hunter](#)

Access Services Specialist:

[Mary E. Anderson](#)

Head of Collections:

[Steve Alleman](#)

Head of Special Collections:

[Stuart Hinds](#)

Head of Music/Media Library:
[Laura Gayle Green](#)

[Leon E. Bloch Law Library Staff Directory](#)

Director, Leon E. Bloch Law Library: [Paul D. Callister](#)

Associate Director/Director of Electronic Resources, Leon E. Bloch Law Library: [Phill Johnson](#)

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 [business and public administration](#), [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

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 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>.

Arts and Sciences, College of

College of Arts and Sciences

Administrative Offices
Dean's Office, [Scotfield 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:

Karen S. Vorst 

Associate Deans:

Thomas C. Sandreczki 

Thomas Stroik 

Wayne Vaught 

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 - Physics
 - Political Science
 - Pre-Law

- o Psychology
- o Religious Studies
- o Sociology
- o Theatre
- o Urban Studies
- o Women's and Gender 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.

Degree Program Major

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.

Double Major

A double major is a program in which a student completes in total two full majors. The degree requirements of each of the two majors must be fulfilled and there can be no more than nine hours in common between the two. The two departments must approve the final program. The degree will indicate both majors, e.g. bachelor of arts, English and sociology.

Combined and Dual Degree Programs

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.

Dual degrees are awarded to students who complete all requirements for double majors in the College and also earn 150 total credit hours. The general education requirements for both degrees, if different, must be completed as well. Additionally, the College cooperates with the School of Education to enable students in elementary and secondary education to earn dual degrees in the School of Education and the College of Arts and Sciences.

Earning a Second Bachelor's Degree

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.

Minor Program

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

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 Academic Advising Office 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 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.

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.
- General studies and undeclared students.
- Probationary students.
- Students requesting overloads or credit/no credit option.
- Undergraduate majors in art, chemistry, physics and theater.
- 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.

Graduate Student Advising

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

Requirements for Bachelor's Degrees

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.

Differences between B.A. and B.S. General Requirements

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 Studies
- Geography
- Geology
- Mathematics and Statistics
- Physics

In all instances, students should contact the appropriate department concerning its requirements for a bachelor of science degree.

General Education Requirements

A. Communication (12 credit hours)

Every student must complete the following:

1. 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.
2. Sophomore-level Writing Intensive course. ENGLISH 225 or HMNTY 202P.
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 towards the degree, will serve as the WEPT for students who earn a C- or better in the course.
4. 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.
5. 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:

1. 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.
2. 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 (13 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 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.
2. One course that focuses on cultural perspectives of an interdependent global environment. This requirement is met by

the courses

- ART 315
- HISTORY 201, 202, 206, 208
- GEOG 200, 202,
- GERMAN 410/410A
- SOCIOL 103
- POL-SCI 220
- ECON 412 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
- A computer application course in the student's major/program.

E. Literature and Philosophy (6 credit hours)

Every student must complete the following:

1. One of the following literature courses
 - CLASSICS 210, 319,
 - ENGLISH 205, 213, 214, 215, 241, 311, 317, 319, 321, 323, 325, 326, 327, 331, 333, 356
 - HMNTY 203P,
 - WLD-LIT 210, 220,
 - FRENCH 301, 303, 304,
 - GERMAN 301,
 - SPANISH 301, 303, 304, 373, 374, 401 or 402.

2. 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

1. 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

- HISTORY 101, 102, 360R (American History),
- POL-SCI 210 (American Government), 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:

- American Studies
- Anthropology

- o Criminal Justice and Criminology
 - o Economics
 - o Geography (regional or cultural, which includes 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)
 - o History
 - o Political Science
 - o Psychology
 - o Sociology
 - o SOC-SCI 210 or 220
2. 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:
- o Chemistry
 - o Environmental Science
 - o Geography (physical geography only, which includes GEOG 150, 203, 215, 314, 317, 319, 335, 336, 360, 398, 401, 402, 404, 406, 426, 430, 435, 442, 444, 448 or 450)
 - o Geology
 - o Natural Science
 - o Physical Science
 - o Physics
 - o Biology
3. Humanities and Fine Arts (two courses, 6 hours).

a. Fine Arts:

Every student must complete one of the following courses:

- o ART-HIST 110, 110P, or any upper-level (300/400) course in art history
- o Environmental Design ENV-DSN 110
- o THEATRE 130, 210
- o Conservatory CONSVTY 120

b. Humanities:

Every student must complete one additional course from any of the following departments/areas:

- o Art (Studio)
- o Art History
- o Communication Studies
- o English
- o Foreign Languages
- o Humanities
- o Philosophy
- o Theater

4. 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

Interdisciplinary Cluster Courses

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.

- ***Aesthetic Issues in the Arts***

ART-HIST 300CJ
 Conservatory of Music CONSVTY 497CJ
 ENGLISH 300CJ
 PHILOS 400CJ

- ***African and African American Women and Creativity***

ART 300CF
 Arts and Sciences 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***
Arts and Sciences 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
Foreign Languages FRN-LNG 400CF

HISTORY 400CF/ 500CF

- ***Culture, Kultur, Civilisation: Identity Formation in the Middle Class***
Foreign Language FRN-LNG 400CI
HISTORY 400CI

- ***Environmental Sustainability***

Environmental Science ENV-SCI 332CZ

Urban Planning and Design UPD 332CZ

- ***Healing and the Arts***
ART 300CH
Arts and Sciences A&S 490CH
Conservatory CONSVTY 300CH
THEATER 300CH

- ***History of Russian Culture***
Foreign Language FRN-LNG 300CS
HISTORY 400CS/500CS
POL-SCI 300CS
THEATER 300CS

- ***Images of the Human Body in the Renaissance***
ART-HIST 300CA
ENGLISH 400CA/ 591CA
HISTORY 400CA/ 500CA

- ***Introduction to Women's Studies***
AMER-ST 400CW
ANTHRO 300CL/580CL
HISTORY 400CW/500CW
SOCIOL 303CW/580CL

- ***Issues in Death and Dying***
ENGLISH 300CO
PHILOS 400CO
SOCIOL 303CO

- ***Mexico, Central America and the Human Condition***

ECON 300CM
Foreign Language FRN-LNG 300CM
HISTORY 300CM/500CM

• ***Nazi Occupied Europe & the Holocaust***

Foreign Language FRN-LNG 400CM

HISTORY 400CM

• ***The Practice and Study of Creativity***

Conservatory of Music CONSVTY 497CH
THEATER 401CH

• ***Radical Changes Since 1945***

ART-HIST 400CE
COMM-ST 403CE
ENGLISH 300CE
HISTORY 400CE/500CE

• ***Religion in America***

HISTORY 400CT
SOCIOL 303CP

• ***Roman Revolution: History and Culture from Gracchi 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 THEATER 300CR.

Transfers with Certified 42-hour block from another Missouri institution

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

Registration Approvals

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.

Repeated Courses

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.

Professional School Credit

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 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.

Hour and GPA Requirement

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.)

Residence Requirements

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.

Written English Proficiency Requirement

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](#).

For additional information on the WEPT, such as frequently asked questions, how to prepare for the WEPT, and how to document and cite sources, see the [Department of English Web page](#). Other information about the WEPT can be found in the general requirements for the College's bachelor of arts, bachelor of science and bachelor of liberal arts degrees, as well as the General Undergraduate Academic Regulations and Information section of this catalog.

Graduation Procedure

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

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:

Cary Lyon 
[Scotfield Hall](#), Room 9
 711 East 51st Street
 (816) 235-5874
lyonc@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:

Brianne Wyatt
[Scotfield Hall](#), Room 9
 711 East 51st Street
 (816) 235-6094
sbwyatt@umkc.edu

Faculty Director:

David N. Atkinson, Curators' Professor of Political Science 
atkinsond@umkc.edu

American Studies

American Studies

Haag Hall, Room 204
5120 Rockhill Road
Kansas City, MO 64110
(816) 235-1137
am-st@umkc.edu
<http://cas.umkc.edu/ams>

Program Director:

Dr. Mary Ann Wynkoop
wynkoopm@umkc.edu

- [Program Description](#)
- Bachelor of Arts in American Studies
 - Student Learning Outcomes
 - Program Requirements
- American Studies Courses (AMER-ST)

Bachelor of Arts in American Studies

Student Learning Outcomes

Students graduating with a baccalaureate degree in American Studies will:

- Be able to think in a truly interdisciplinary way about issues and ideas that contribute to a comprehensive view of American culture.
- Be able to integrate a variety of disciplines to create a topic or theme of their choice for research that culminates in a major paper or other form of presentation (film, art, music, photography).
- Be able to write clearly and present ideas effectively.
- Be able to work independently.

Students graduating with a baccalaureate degree in American Studies will be prepared for entry into graduate programs, professional programs or into public sector or private sector employment.

Program Requirements

The American Studies major is an interdisciplinary approach to the study of the culture of the United States, and is open to selected students in good standing.

A student interested in majoring in American Studies should consult with the director, who will act as the student's adviser if he or she is admitted to the program. Superior work is expected from all students.

A major requires at least 36 credits, including:

1. Six hours of introductory courses that focus on American Studies and introduce the student to interdisciplinary methodology and the literature of American Studies: AMER-ST 250 and AMER-ST 251 (PACE equivalent AMER-ST 341P and AMER-ST 302P).
2. A three-hour integrating seminar (AMER-ST 440WI), in which the student produces an interdisciplinary seminar paper based on his or her coursework and its prerequisite, AMER-ST 400.
3. The remaining 24 hours of coursework must come from at least three relevant departments and must be approved by the director and the core faculty from American Studies. The courses must represent an interdisciplinary focus on a particular theme or issue in American life.

Programs are tailored to the individual student and therefore tend to vary widely. They include courses from such departments as art and art history, communication studies, economics, English, history, philosophy, political science, psychology, sociology (including anthropology) and others as appropriate. They may also include work from other relevant units, such as the Conservatory of Music and Dance.

PACE students wishing to major in American Studies should refer to the PACE section of this catalog for details.

[Program Description](#)

Architecture, Urban Planning and Design

Department of Architecture, Urban Planning and Design

[Epperson House](#), room 213
5200 Cherry Street
(816) 235-1725
aupd@umkc.edu
<http://cas.umkc.edu/AUPD>

Mailing Address

University of Missouri-Kansas City
Department of Architecture, Urban Planning and Design
213 Epperson
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:

Joy D. Swallow, M.Arch., A.I.A.

Associate Professor:

Joy D. Swallow (chair), M.Arch., A.I.A.

Assistant Professors:

Michael Frisch, Ph.D., AICP; Sungyop Kim, Ph.D.; Jacob A. Wagner, Ph.D.

Visiting Professor:

Theodore H. Seligson, B.Arch., F.A.I.A.

Lecturers:

Elizabeth Amirahmadi, A.I.A.; Michael Bluhm, Ph.D, P.E.; Christopher Brewster, J.D., A.I.C.P.; John Collier; Dominique Davison, A.I.A.; John Eck, A.I.A.; Richard Findley, A.I.A.; Vincent Gauthier, A.I.C.P.; Kevin Klinkenberg, A.I.A.; Vince Latona, A.I.A.; Sue Malik, R.A.; Greg Sheldon, A.I.A.; Richard Wetzel, A.I.A.

Joint Appointment:

Joseph Hughey, Ph.D., (professor, department of psychology); Rochelle Ziskin, Ph.D. (associate professor, art and art history)

Administrative Assistant:

Stella Szymanski

Participating Faculty:

Ray Coveney, Ph.D., (chair and professor, geosciences); Steve Driever, Ph.D., (professor, geosciences); Wei Ji, Ph.D, (professor, geosciences); James Sheppard, Ph.D., (assistant professor, philosophy); Robyne Turner, Ph.D., (associate professor, Bloch School of Business and Public Administration)

- Department Description
- Financial Aid
- Admission and Advising
- Student Activities
- Open House
- Architectural Studies Major
- Bachelor of Arts in Urban Planning and Design

- Student Learning Outcomes
- Program Requirements
- 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 Web site: <http://www.umkc.edu/finaid>) 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

Student Learning Outcomes

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.

Program Requirements

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.

Urban Planning and Design Courses_

Architectural Studies

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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 205C
5015 Holmes Street
(816) 235-1501
art@umkc.edu
<http://cas.umkc.edu/art>

Mailing Address

University of Missouri-Kansas City
Department of Art and Art History
[Fine Arts Building](#), Room 205C
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:

[Kati Toivanen](#)

Professors Emeriti:

Eric J. Bransby, William Crist, George Ehrlich, Stephen Gosnell, Leonard Koenig, Barbara Mueller

Instructor Emeritus:

Nancy DeLaurier

Professors:

Frances Connelly, Burton L. Dunbar, Craig A. Subler (graduate studio art adviser), Maude Wahlman (Dorothy and Dale Thompson/Missouri Endowed Professor of Global Arts)

Associate Professors:

Barry Anderson, Geraldine E. Fowle (undergraduate art history adviser), P. Elijah Gowin, Kati Toivanen, Paul Tosh, Rochelle Ziskin (graduate art history adviser)

Assistant Professors:

Richard W. Allman

Research Associate Professor and Joint Appointment with Nelson-Atkins Museum of Art:

Robert Cohon

Curator of Slides:

Carla Gilliland Poirier

- [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
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 - Program Requirements
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 - 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 and Art History (ART) Courses

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 degree in art, art history and studio art. The master of arts is offered in art history and studio art. The department also participates in the Interdisciplinary Ph.D. program.

In the undergraduate program, art history serves as humanities electives for non-majors, as part of the program for studio majors and as a major field for students who wish a liberal arts major or who wish to pursue graduate study in this field.

Studio art courses are open to non-majors who meet the appropriate prerequisites. After completing a foundation program, studio students can take work in a number of areas: drawing, painting, printmaking, graphic design, photography and electronic media. The program serves both the general studio major and those students seeking further professional training or employment in art-related fields.

There are four degree programs within the undergraduate major offered by the Department of Art and Art History: studio art, art history, general art and a combined art/art history major. In addition, the department works with the School of Education to offer a dual degree in studio art and secondary education.

Completion of an undergraduate degree with above-average performance in either art history or studio art is normally a prerequisite for further study on the graduate level.

Art and Art History Special Resources/Programs

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, student internships and other cooperative programs. Museum curators also lecture in art history at UMKC.

Art and Art History Undergraduate Admission Requirements and Advanced Placement Procedures

For the prospective art history major, no previous special training is required, but a background in English, history, literature or foreign language is useful.

The department does not necessarily expect its studio majors to have previous studio art training, and any student may enroll in some introductory studio courses. In order to take studio classes beyond the introductory level, any student new to the department must submit a portfolio for review to determine placement in the appropriate level of the curriculum. This assessment will incorporate a review of the student's transcripts and portfolio and usually entails a personal interview. The department must be contacted for instructions concerning the submission of portfolios and for admission into any upper-level studio course. This should be done at least three weeks prior to registration to ensure time to review each case.

Portfolio Review Procedures

The portfolio submitted by a new student for advanced placement in studio classes will be reviewed by a panel of faculty members whose recommendations will determine the conditions of the initial enrollment. Subsequent performance in coursework in the department will determine the student's future advancement in the curriculum.

Slides and/or photographs are acceptable, and these should be clearly labeled as to name, medium, size, date and other pertinent information. Original works can be submitted for review, provided they are delivered in a compact fashion and are promptly retrieved by the candidate. No more than three works that are too large for a tie-portfolio may be submitted.

A portfolio should demonstrate two things. First, it should provide a visual demonstration of the technical skills of the applicant's previous studio experience. Second, it should contain a representative sample of recent work, particularly as it might relate to prospective study in our department.

Therefore, examples of jewelry, ceramics or other craft-oriented projects can be omitted since these are not part of our course offerings.

Bachelor of Arts: Art History

Student Learning Outcomes

1. Students graduating with a baccalaureate degree in Art History will:
 - o Have a basic knowledge of both Western and Non-Western art history.
 - o Have developed effective writing skills.
 - o Be able to understand the context of information contained in scholarly publications.
2. Students graduating with a baccalaureate degree in Art History will be prepared for entry into a graduate program, or the job market.

Program Description

Art History Curriculum

In addition to the general education fine arts course, ART 110, five types of courses are offered: survey courses, topical courses, seminars, independent study and cluster courses.

The general education fine arts course is a lecture-discussion course that introduces students to the characteristics and history of the visual arts.

Formal study of the history of art begins with survey courses. There are three such courses in Western art and two in non-Western art. There are no prerequisites for these courses, but sophomore standing or higher is advised. These courses are assigned 300-level numbers. They cannot be taken for graduate credit. Students are encouraged to take ART 301, 302 and 303 sequentially if possible.

Topical or specialized courses reflect the expertise and research strengths of the faculty members. The prerequisite for one of these courses is the relevant survey course, or permission of the instructor. These courses are assigned 400-level numbers, and they can be taken for either undergraduate or graduate credit.

Seminars are titled generically by major periods or cultural divisions in the history of art (e.g. Baroque art, 19th-century art). When a seminar is offered, a specific topic will be announced and listed in the schedule of classes. These are considered advanced-level courses and are thus assigned 400- and 500-level numbers. Enrollment will be granted by permission of the student's departmental adviser 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 490-level numbers. Enrollment in these courses is granted only by the instructor who will supervise the study. (These students are carried as an overload by the instructor except in special cases.) 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.

Degree Requirements

1. The three Western surveys: ART 301, 302 and 303.
2. At least three topical/specialized courses (400-level with at least two different faculty).
3. At least two non-Western courses (survey or topical/specialized).
4. At least nine hours of studio art: ART 112, 121 and 131 are recommended.
5. College-mandated capstone course: ART 482.
6. At least 12 hours each in two cognate fields (e.g. history, literature).

Grade-point Average Requirements

All art history majors are required to maintain a minimum of 2.5 GPA in art history courses.

Any regularly admitted student can declare a major in art history. ART 110, Introduction to the Visual Arts, will not be accepted as one of the required art history courses. The department recommends that the foreign language requirement for the B.A. degree should be taken in either French or German.

For transfer students wishing to major in art history, an evaluation of previously completed courses in art history will be made at the time of their first meeting with a departmental adviser, and their departmental record will be annotated as to the equivalencies given to the UMKC requirements. In any case, regardless of the amount of previously completed art history courses, a transfer student majoring in art history must take at least two topical/specialized courses with two different faculty members.

The 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

A minor in art history may be earned by completing 18 hours of art history taken in consultation with a faculty adviser.

Bachelor of Arts: Studio Art

Student Learning Outcomes

1. Students graduating with a baccalaureate degree in Studio Art will:
 - o Have the basic skills for the practice of art in one or more specialized disciplines.
 - o Be aware of the latest advances in adapting technology for the creation of works of art, including appropriate software and hardware skills.
2. Students graduating with a baccalaureate degree in Studio Art will be prepared for entry into a professional school, a graduate program or the job market.

Studio Art Curriculum

The offerings in studio are divided into four general classifications:

- Foundation studio (100-200)
- Intermediate studio (300)
- Advanced studio (400)
- Graduate studio (5500)

The foundation studio courses are required for all studio majors. They consist of introductory courses in two-dimensional and three-dimensional design and drawing. Additional courses are considered basic preparation for intermediate-level work in some areas of studio art. Normally a student is required to complete 100-level courses before 200-level work. These two levels are completed in the first two years unless a student has received advanced placement through a portfolio review.

The intermediate level consists of courses in specific studio areas such as drawing, painting, printmaking, graphic design, photography, digital imaging and computer multimedia. These courses have a 300 designation, and they are generally taken in the junior year.

The advanced level consists of courses with a 400 designation. Above-average performance in 300-level prerequisite courses is usually required for enrollment in an advanced course. Frequently the specific permission of the instructor is also required. Courses below the 400 level may not be taken for graduate credit, except with special permission from the Department of Art and Art History.

Degree Requirements

1. The foundation studio program or its approved equivalents: ART 112, 121 and 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 301, ART 302, ART 303, ART 315, ART 319) and one 400-level Art History elective course. Total Art History requirements: 12 credit hours. Up to six additional credit hours in Art History can be counted toward the 24 studio credit hours mentioned in requirement number two.

Grade-point Average Requirements

All studio art majors are required to maintain a minimum 2.5 GPA in studio art courses.

Suggested Plan of Study - Studio Art

The foundation studio program should be completed in the first two years along with at least two of the required art history courses and as many general education requirements as possible.

In the third year, emphasis should be on intermediate studio courses and intermediate art history courses. Arts and sciences general degree requirements should be completed.

The senior year should consist of advanced studio courses, advanced art history courses and electives.

Teacher Certification in Art

Developed with the School of Education, this curriculum provides students with extensive studio training and a strong foundation in aesthetics and art history. The final portion of the program involves courses in education and field experience, including student teaching. Students graduate with dual degrees in studio art and secondary education.

In addition to art courses required for the studio degree, students should be aware that state requirements for certification in art require art courses in specific areas. The following degree requirements illustrate the curriculum that students can expect to design with approval of the department of Art and Art History and the School of Education.

Degree Requirements

Part One: Studio Art

1. Foundation courses (18 hrs.): ART 112, ART 121, ART 131, ART 212, ART 221 and ART 224.
2. Four intermediate-level courses (12 hrs.): Ceramics/Clay Sculpture and Fiber Arts/Sculpture (courses available, by agreement, through the Kansas City Art Institute; plus two courses from the following: ART 114, ART 206, ART 308 or ART 309, ART 311 and ART 322.
3. Three upper-level courses (9 hrs.).
4. College-mandated capstone course ART 499WI.
5. Art history: three courses from the survey sequence ART 301, ART 302, or ART 303, or ART 315, or ART 319 and one 400-level Art History elective course. Total Art History requirements: 12 credit hours.

Part Two: Professional Education

Certification as an Art teacher (K-12) in either Kansas or Missouri requires that a student complete specific additional requirements 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.

Grade-point Average Requirements

Art education majors must maintain a 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 adviser.

Bachelor of Arts: Art

Student Learning Outcomes

1. Students graduating with a baccalaureate degree in Art will have a basic knowledge of the general areas of studio art and art history.
2. Students graduating with a baccalaureate degree in Art will need additional preparation if, in the future, they decide to enter a graduate program or the job market.

Degree Requirements

1. Art history: ART 301, ART 302 and ART 303, one non-Western course (300-400 level), and one 400-level course for a total of 15 hours.
2. A minimum of nine hours of basic studio courses (100-200 level).
3. College-mandated capstone course ART 499WI.
4. The general art major must complete at least 30 semester hours of art courses, and at least 18 must be on the 300-400 level.

Grade-point Average Requirements

The general art major must maintain at least a minimum 2.0 GPA in all art courses in order to continue in the major and to graduate.

Suggested Plan of Study

This option is sufficiently flexible so that no special schedule planning is required. However, it is recommended that 100- and 200-level courses in art be completed within the first five semesters to give ample opportunity to schedule the 300- and 400-level classes required.

Master of Arts: Art History

Student Learning Outcomes

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.

The Department of Art and Art History offers the master of arts degree in art history and in studio art.

General Nature of the Program

In studio art, the program offers emphasis in drawing, painting, graphic arts, printmaking, photography and electronic media. In art history, coursework in both Western and non-Western art is available.

Applications for Graduate Study

Applications for the MA 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 a committee of the faculty.

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 UMKC 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 adviser 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 5501, Scope and Methods of Art History, and a maximum of 6 credit hours of ART 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 of French, German, or Italian for M.A. Students in Art History

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.

The 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 adviser most often develops from a seminar paper, and its presentation must conform to the requirements of the School of Graduate Studies.

Graduate Credit

Instructor's approval for each course is required, and this is contingent upon previous training.

Master of Arts: Studio Art

Student Learning Outcomes

1. Students graduating with an MA 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 MA in Studio Art will be prepared for entry into an MFA program or the job market.

The Department of Art and Art History offers the master of arts degree in art history and in studio art.

General Nature of the Program

In studio art, the program offers emphasis in drawing, painting, graphic arts, printmaking, photography and electronic media. In art history, coursework in both Western and non-Western art is available.

Applications for Graduate Study

Applications for graduate study in the Department of Art and Art History should be submitted at least one semester in advance of the application deadline. Applicants in studio art should apply by March 1 for the fall semester and by October 15 for the spring semester. There is no summer semester admission. Portfolios must be included with the applications. After portfolio review and classification by the department, an appointment for advisement will be arranged.

Studio Art Classification of Entering Students

In all cases, evidence of adequate preparatory work in the area of the proposed course is required. Admittance to graduate-credit classes is given only after a review of transcripts and portfolio. A student with an accredited B.A. in art or B.F. A. in art (or with equivalent studio background) may enroll in ART 495 or ART 498A to ART 498N for graduate credit. Instructor's approval for each course is required, and this is contingent upon previous training (normally at least 28 hours of junior-senior studio work) and proven performance.

Requirements for Graduation

All degree candidates are required to take a minimum of 36 graduate credits, including at least three courses in art history and [ART 5599](#), Research and Thesis. Additional 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.

The Qualifying Examination

The qualifying examination is scheduled on demand. Students must have completed at least 9 hours of graduate study to be eligible, and the exam should be taken before 15 hours of graduate study applicable to the program are completed. A major purpose of the qualifying exam is to determine the readiness of students to be degree candidates; therefore, the examination is a review, both of the general competency of a student in the chosen field of study and of the plans for the thesis. Based on the results of the qualifying examination, a planned program will be prepared; and a supervisory committee will be appointed. Specific details concerning the qualifying examination will be publicized at the time that the examinations are scheduled.

The Thesis or Final Project

In the last term of candidacy, a student must complete an approved project that demonstrates capacity for independent work of a suitably high level of proficiency. This project in a studio medium is selected in conjunction with the thesis adviser. If a production thesis is selected, students must present a written statement of purpose and make an oral defense of thesis before their supervisory committee. In addition, a photographic record of the project must be made and presented to the department to be held in its visual resources collection.

Graduate Credit

Instructor's approval for each course is required, and this is contingent upon previous training (normally at least 28 hours of junior-senior studio work) and proven performance.

Chemistry

Department of Chemistry

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Department of Chemistry

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Department Chair:

Kathleen V. Kilway

Professors Emeriti:

Kuang L. Cheng, John W. Connolly, Wesley Dale, Henry A. Droll, Eckhard W. Hellmuth, Peter F. Lott, Layton L. McCoy, Timothy F. Thomas

Curators' Professors:

Y.C. Jerry Jean (chemistry and physics), James R. Durig, (chemistry and geosciences), Charles J. Wurrey (Curators' Teaching)

Professors:

Jerry R. Dias, Andrew J. Holder, Zhonghua Peng (principal graduate adviser), Thomas C. Sandreczki (associate dean, arts and sciences), Kenneth S. Schmitz

Associate Professors:

Keith R. Buszek, Peter Groner (director of laboratories), Kathleen V. Kilway (chair)

Assistant Professors:

Todor K. Gounev (program director), Ekaterina N. Kadnikova, Nathan A. Oyler, J. David Van Horn, Andrea Drew Gounev (coordinator, organic chemistry laboratories and principal undergraduate adviser)

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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: Chemistry

Student Learning Outcomes

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:

1. The equivalent of one year of general chemistry ([CHEM 211](#), CHEM 211, CHEM 212R and CHEM 212LR).
2. PHYSICS 210, PHYSICS 220 and [MATH 110](#) (or math exception based on high school math courses).
3. [CHEM 341WI](#) (writing intensive, for which the WEPT is an enforced prerequisite.)
4. 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.
5. No more than three hours total in [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: Chemistry

Student Learning Outcomes

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).
2. Organic chemistry ([CHEM 321](#), CHEM 321L, CHEM 322R, CHEM 322L).
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](#)).
6. Inorganic chemistry ([CHEM 382*](#), CHEM 451R).
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:

Chemistry Courses	Courses in Other Disciplines
Freshman CHEM 211 (4) CHEM 211L (1) CHEM 212R (4) CHEM 212LR (1)	MATH 210 (4) MATH 220 (4)
Sophomore CHEM 321 (3) CHEM 321L (1) CHEM 322R (3) CHEM 322L (1)	MATH 250 (4) PHYSICS 240 (5) PHYSICS 250 (5)
Junior CHEM 341 (4) CHEM 431 (3) CHEM 432 (3) CHEM 442R (3) CHEM 437WI (3)	4XX+ in CHEM (3) -or- 3XX+ in BIOL, PHYSICS -or- MATH (3)
Senior CHEM 410 (1) CHEM 451R (3) CHEM 367* (3) -or- LS-BIOC 341* (3)	

-or-
CHEM 3XX** -or- 4XX** (3)
CHEM 382* (2)
-or-
CHEM 499** (2)

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

Student Learning Outcomes

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.

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 80 (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 5530, respectively. Enrollment in other graduate organic or physical chemistry courses is not permitted until CHEM 5520R or CHEM 5530, respectively, is (are) successfully completed. CHEM 5530 is currently offered concurrently with CHEM 431 or 432. A student is required to take either CHEM 5530/CHEM 431 or 5530/432 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 5530/431 and 5530/432, 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.

Non-Thesis Program

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 hours from Analytical, Inorganic, Polymer, Bioorganic, and Environmental Chemistry courses: CHEM 5541R, CHEM 5551R, CHEM 5571R, CHEM 5567, or CHEM 5587.
4. One credit hour seminar presentation (CHEM 5611).
5. The remaining 15 credit hours, among which up to 6 credit hours of directed studies (CHEM 5590) 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.

Thesis Program

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:

Three credit hours in one of the following Physical Chemistry courses: CHEM 5531, 5532, 5533, 5534, or 5535.

Three credit hours in Organic Chemistry: CHEM 5521R or CHEM 5522.

Six credit hours from graduate level chemistry courses numbered from CHEM 5541 to CHEM 5589.

Two additional graduate-level courses for a minimum of 6 credit hours.

One credit hour seminar presentation (CHEM 5611).

In addition to the formal coursework requirements, a minimum of 6 credit hours of research and thesis (CHEM 5599) are required. Research and thesis (CHEM 5599) work must be done under the direction of the student's research adviser.

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.

Emphasis Areas

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

(816) 235-1305

<http://cas.umkc.edu/classics>

Faculty Coordinators:

Jeff Rydberg-Cox  

James Falls  

- Classical and Ancient Studies Concentration and Minor
- Classical and Ancient Studies (CLASSICS) Courses

Classical and Ancient Studies Concentration and Minor

The Classical and Ancient Studies concentration provides a flexible program for the study of history, literature, art, culture, and language of the Ancient Mediterranean world. Students can complete a concentration or minor in Classical and Ancient Studies in conjunction with the bachelor of liberal arts degree (B.L.A.) or they can declare a Classical and Ancient Studies minor in conjunction with a major (B.A.) in another discipline.

Students wishing to complete the concentration in classical studies must take a minimum of 30 hours in at least three departments from the approved list of courses. The minor in classical studies requires 18 hours from the approved list.

The courses chosen for a program of study may vary widely based on the interests of each student; the faculty coordinators will help you select a curriculum suited to your individual interests, whether it be Greece and Rome or the Ancient Near East with a focus on history, philosophy, art history, or literature.

Students pursuing this course of study are encouraged to study at least one ancient language and to take an introductory level course that will provide them with a broad introduction to the ancient world (Art History 110, History 201, or Philosophy 210). Students wishing to pursue graduate studies in classics should plan to take both Greek and Latin.

Course Offerings

Classical and Ancient Studies:

- CLASSICS 210 Foundations of World Literature
(also listed as World Literature 210)
- CLASSICS 310WI Ancient Philosophy
- CLASSICS 318 Bible as Literature
- CLASSICS 319 Myth and Literature
- CLASSICS 340A Ancient Literature in Translation
- CLASSICS 369 Introduction to Prehistoric
and Classical Archaeology
- CLASSICS 430 Plato
- CLASSICS 431 Aristotle
- CLASSICS 467 Myth and Ritual
- CLASSICS 469 Archaeology and Biblical History
- CLASSICS 470 Ancient Egypt
- CLASSICS 471 Ancient Greece
- CLASSICS 472 Ancient Rome
- CLASSICS 470P Ancient World: The Social History

of the Ancient World
CLASSICS 471P Ancient World: The Political Structure
of the Ancient World
CLASSICS 472P Ancient World: The Cultural and Intellectual
Dimensions of Ancient Civilization
CLASSICS 475WI History of Ancient Israel
CLASSICS 499 Senior Tutorial

Art History:

ART 253 History of the Designed Environment I:
Ancient and Medieval
ART 301 Survey of Western Art I:
Ancient and Medieval
ART 452 Greek Art and Architecture
ART 453 Roman Art and Architecture
ART 497I From the Parthenon to the Ara Pacis

English:

ENGLISH 318 Bible as Literature
ENGLISH 319 Myth and Literature
ENGLISH 340A Ancient Literature in Translation
ENGLISH 445 History and Principles of Rhetoric
(with approval of program coordinators)

History:

HISTORY 428B Women in Medicine: Patients and
Practitioners from Antiquity to Present
(with approval of program coordinators)
HISTORY 467 Myth and Ritual
HISTORY 469 Archaeology and Biblical History
HISTORY 470 Ancient Egypt
HISTORY 471 Ancient Greece
HISTORY 472 Ancient Rome
HISTORY 470P Ancient World: The Social History
of the Ancient World
HISTORY 471P Ancient World: The Political Structure
of the Ancient World
HISTORY 472P Ancient World: The Cultural and Intellectual
Dimensions of Ancient Civilization
HISTORY 475WI History of Ancient Israel

Philosophy:

PHILOS 210 Foundations of Philosophy
(with approval of program coordinators)
PHILOS 310WI Ancient Philosophy
PHILOS 430 Plato
PHILOS 431 Aristotle

Latin:

LATIN 110 Introduction to Latin I
LATIN 120 Introduction to Latin II
LATIN 211 Second Year Latin Readings I
LATIN 221 Second Year Latin Readings II
LATIN 290 Special Readings in Latin
LATIN 301 Virgil

LATIN 302 Ovid

LATIN 311 Prose Fiction & Epistolography

LATIN 314 Lyric & Elegiac Poetry

LATIN 490 Advanced Special Readings in Latin

Greek:

GREEK 110 Elementary Greek I

GREEK 120 Elementary Greek II

GREEK 280 Special Readings in Greek I

GREEK 290 Special Readings in Greek II

GREEK 301 Herodotus

GREEK 302 Homer

GREEK 310 Philosophy & Rhetoric

GREEK 311 Drama & Lyric Poetry

GREEK 312 Greek Narrative Prose

GREEK 490 Advanced Special Readings in Greek

Cluster Courses:

CLASSICS 300CY Ancient World in Film

CLASSICS 300CS Clio and the Other Muses: History
and Culture in 5th Century Athens

CLASSICS 300CB Women in the Ancient World

CLASSICS 300CR Roman Revolution: History and
Culture from the Gracchi to Augustus

CLASSICS 300CZ Archaeology of Ancient Disasters

Any special readings course in art history, English, history or philosophy must be approved by the program coordinators.

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

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Department Chair:

Carol Koehler

Professors Emeriti:

Joan E. Aitken, Gregory Black, Robin M. League

Associate Professor Emeriti:

Larry G. Ehrlich

Professors:

Michael R. Neer, Robert Unger

Associate Professors:

Gregory Gutenko, Carol Koehler (chair), Michael McDonald, Peter Morello, G. Thomas Poe

Assistant Professors:

Angela Elam, Caitlin Horsmon, Judith K. McCormick (undergraduate adviser)

Instructor:

Linda Kurz (principal undergraduate adviser)

- 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 Arts Emphasis
- Minor in Communication Studies
- Minor in Film Studies
- 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 Arts

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.

The Journalism and Mass Communication emphasis offers concentrated study in select areas including print and electronic journalism, radio, television, journalism and advertising.

The Film and Media Arts emphasis offers a comprehensive approach to film, digital video and new media production.

In addition to the communication studies bachelor's degree, the UMKC debate program operates from the Department of Communication Studies. Students interested in joining the team may submit applications to the director of debate.

Special Laboratories

The department has fully equipped production facilities, including a state-of-the-art production studio, film and video editing suites, student radio and audio labs and digital imaging labs. Media production students have access to non-linear digital film and video editing (Avid, Final Cut Pro, iMovie and Pro Tools) and linear tape editing; a three-camera studio with jib arm; computer-controlled lighting; and broadcast standard digital special effects capabilities. Camera production for Super-8mm and 16mm film is also supported, along with growing digital imaging tools and web-based applications. These facilities are housed in the department's media labs in Haag Hall.

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.

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.

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

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 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 Carol Koehler.

Advising System

The department recommends that students check the current program requirements in the department office before filing the declaration of major form. Students may wish to consult the principal undergraduate adviser Linda Kurz.

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

Student Learning Outcomes

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.

Core Program Requirements

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)		Hours
COMM-ST 110	Fundamentals of Effective Speaking and Listening	3
COMM-ST 483	Seminar in Communication Studies	3

The program of study for the bachelor of arts in communication studies consists of 33 total credit hours. 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. Each emphasis requires at least three hours of writing-intensive courses.

Note: Students must successfully complete the WEPT Exam before enrolling in any writing intensive courses.

Interpersonal and Public Communication Emphasis

In addition to the department's six hours of core courses, three hours of Interpersonal and three hours of Public communication courses are required. Twelve hours of Interpersonal and Public electives are also required. Nine hours of departmental electives complete the emphasis for a total of 33 credit hours.

Interpersonal Communication: (3 Hours)		Hours
COMM-ST 343	Group Dynamics	3
COMM-ST 344WI	Communication in Organizational Settings	3
COMM-ST 377WI	Interpersonal Communication	3
COMM-ST 378	Computer-Mediated Communication	3
COMM-ST 431	Colloquium in Interpersonal Dynamics	3
COMM-ST 444WI	Intercultural Communication	3
Public Communication: (3 Hours)		
COMM-ST 213	Argumentation and Critical Thought	3
COMM-ST 312	Advanced Public Speaking	3
COMM-ST 317	Persuasion	3
COMM-ST 341/WI	Rhetorical Theory and Criticism	3
COMM-ST 446	Principles of Advertising	3
COMM-ST 448	Principles of Public Relations	3

COMM-ST 484	Communication Studies Activities	1-4
Interpersonal and Public Electives: (12 hours)		
COMM-ST 213	Argumentation and Critical Thought	3
COMM-ST 312	Advanced Public Speaking	3
COMM-ST 317	Persuasion	3
COMM-ST 341WI	Rhetorical Theory and Criticism	3
COMM-ST 343	Group Dynamics	3
COMM-ST 344WI	Communication in Organizational Settings	3
COMM-ST 377WI	Interpersonal Communication	3
COMM-ST 378	Computer-Mediated Communication	3
COMM-ST 400	Special Studies	1-3
COMM-ST 431	Colloquium in Interpersonal Dynamics	3
COMM-ST 444WI	Intercultural Communication	3
COMM-ST 446	Principles of Advertising	3
COMM-ST 448	Principles of Public Relations	3
COMM-ST 484	Communication Studies Activities	1-4

Film and Media Arts Emphasis

In addition to the 6 credit hours of the department's core courses, the Film and Media Arts emphasis requires COMM-ST 230 - Introduction to Film Studies (3 cr. hrs) and 24 hours of Film and Media Arts electives for a total of 33 credit hours.

Required Courses: (3 Hours)
Hours

COMM-ST 230 Introduction to Film Studies 3

Film and Media Arts Electives: (24 Hours)

COMM-ST 220 Modern Communications Media 3

COMM-ST 250 Introduction to Media Production 3

COMM-ST 281 Animation 3

COMM-ST 320 Mass Media, Culture and Society 3

COMM-ST 339 Film Theory and Criticism 3

COMM-ST 341WI Rhetorical Theory & Criticism

COMM-ST 351WI Fundamentals of Writing for
the Media 3

COMM-ST 354 Introduction to Screenwriting 3

	COMM-ST 363	Radio Production I	3
COMM-ST 373	Intermediate Media Production		3
COMM-ST 376	History of the Film Industry		3
COMM-ST 380	Contemporary Issues in the Mass Media		3
COMM-ST 384	Documentary Film		3
COMM-ST 385	Documentary Production		3
COMM-ST 391	The Worlds of Alfred Hitchcock		3
COMM-ST 392	Great Directors of Foreign Film		3
COMM-ST 393	History of the Hollywood Musical		3
COMM-ST 394	The World of "Film Noir"		3
COMM-ST 400	Special Studies	1-3	
COMM-ST 402CD	American Social Film: Silver Screen & the American Dream		3
COMM-ST 403CE	Radical Changes Since 1945		3
COMM-ST 454	Advanced Screenwriting		3
COMM-ST 457	Producing and Distributing Media		3
COMM-ST 470	Directing		3
COMM-ST 471	Advanced Media Production		3

COMM-ST 478	Media Law	3
COMM-ST 484	Communication Studies Activities	1-4
COMM-ST 498	Special Problems in Communication Studies	1-6

Journalism and Mass Communications Emphasis

In addition to the department's six credit hours of core courses, the Journalism and Mass Communication emphasis requires six hours: COMM-ST 220 and 303WI. An additional 21 hours of Journalism and Mass Communication electives are required, for a total of 33 hours.

Required Courses: (6 Hours)		Hours
COMM-ST 220	Modern Communications Media	3
COMM-ST 303WI	Introduction to Journalism	3
Journalism and Mass Communication Electives: (21 Hours)		
COMM-ST 265	Media Photoimaging	3
COMM-ST 311	Radio & Television Performance	3
COMM-ST 314WI	Reporting	3
COMM-ST 320	Mass Media, Culture and Society	3
COMS-ST 331/WI	Mass Media in America	3
COMM-ST 341/ WI	Rhetorical Theory and Criticism	3
COMM-ST 351WI	Fundamentals of Writing for the Media	3
COMM-ST 361	Broadcast Management	3
COMM-ST 363	Radio Production I	3
COMM-ST 371	Intermediate Video Production	3
COMM-ST 380	Contemporary Issues in the Mass Media	3
COMM-ST 384	Documentary Film	3
COMM-ST 388	Media Ethics	3
COMM-ST 400	Special Studies	1-3
COMM-ST 402CD	American Social Film: Silver Screen & American Dream	3
COMM-ST 432	Press, Politics and Public Policy	3
COMM-ST 446	Principles of Advertising	3
COMM-ST 448	Principles of Public Relations	3
COMM-ST 456	Electronic Journalism	3
COMM-ST 462	Public Broadcasting	3
COMM-ST 466	Electronic Journalism Performance	3
COMM-ST 478	Media Law	3
COMM-ST 484	Communication Studies Activities	1-4

Minor in Communication Studies

Minor in Communication Studies

A minor in communication studies may be earned by completing two required courses (COMM-ST 110 and 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)
Hours

COMM-ST 110	Fundamentals of Effective Speaking and Listening	3
COMM-ST 308	Introduction to the Study of Human Communication	3

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)
Hours

COMM-ST 230	Introduction to Film Studies	3
COMM-ST 376	History of the American Film Industry	3
Electives: (12 hours)		
COMM-ST 220	Modern Communications Media	3
COMM-ST 250	Introduction to Media Production	3
COMM-ST 320	Mass Media, Culture and Society	3
COMM-ST 339	Film Theory and Criticism	3
COMM-ST 341WI	Rhetorical Theory & Criticism	
COMM-ST 351WI	Fundamentals of Writing for the Media	3
COMM-ST 354	Introduction to Screenwriting	3
COMM-ST 363	Radio Production I	3
COMM-ST 373	Intermediate Media Production	3
COMM-ST 380	Contemporary Issues in the Mass Media	3
COMM-ST 384	Documentary Film	3
COMM-ST 385	Documentary Production	3
COMM-ST 391	The Worlds of Alfred Hitchcock	3
COMM-ST 392	Great Directors of Foreign Film	3
COMM-ST 393	History of the Hollywood Musical	3
COMM-ST 394	The World of "Film Noir"	3
COMM-ST 400	Special Studies	1-3
COMM-ST 402CD	American Social Film: Silver Screen & the American Dream	3
COMM-ST 403CE	Radical Changes Since 1945	3
COMM-ST 454	Advanced Screenwriting	3
COMM-ST 457	Producing and Distributing Media	3
COMM-ST 470	Directing	3
COMM-ST 471	Advanced Media Production	3
COMM-ST 478	Media Law	3
COMM-ST 484	Communication Studies Activities	1-4
COMM-ST 498	Special Problems in Communication Studies	1-6

Criminal Justice and Criminology

Department of Criminal Justice and Criminology

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http://cas.umkc.edu/cjc

Mailing Address

University of Missouri-Kansas City
Department of Criminal Justice and
Criminology
5215 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:

Kenneth Novak

Professors:

Wayne Lucas (principal graduate adviser)

Associate Professors:

Cathleen Burnett (principal undergraduate adviser), Alexander Holsinger,
Kristi Holsinger, Kenneth Novak (chair)

Assistant Professors:

Toya Like, Jessica Hodge

Visiting Assistant Professor:

Kristin Bechtel

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 Arts 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

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 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.

Federal Law Enforcement Officers Association Scholarship in Criminal Justice & Criminology

The Federal Law Enforcement Officers Association is the largest professional association for federal law enforcement officers. FLEOA is a volunteer association representing more than 25,000 federal agents from over 65 federal law enforcement agencies providing a legislative voice for its members.

Eligibility Criteria:

- Undergraduate student majoring in Criminal Justice & Criminology
- 3.0 minimum GPA
- At least 24 hours completed at UMKC

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

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

The master of science degree in criminal justice and criminology is intended to prepare students for careers in field practice, research, administration and program evaluation in public and private justice-related agencies. Students also may find the degree a useful prelude to law school or doctoral study in criminal justice, criminology, sociology, political science or public administration. Career opportunities are not restricted to those traditionally defined as criminal justice (i.e., law enforcement or correctional administration). Options include program planning, policy evaluation and investigative work for state and federal regulatory agencies, management and planning for private security agencies; and research and evaluation for legislative and public and private advisory agencies. Students with the M.S. degree also may find some teaching opportunities open to them, although permanent employment in institutions of higher education usually requires a doctoral degree.

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

Student Learning Outcomes

Graduates of the UMKC's Undergraduate Criminal Justice & Criminology Degree Program will:

- Have specific knowledge of the three major areas of America's Criminal Justice system (Police, Courts, and Corrections).
- Understand how each sub-system within the Criminal Justice system operates, and how they interact with one another.
- Have knowledge of the major criminological theories that attempt to explain delinquent and criminal behavior.
- Be able to read, understand, and utilize selections from the Criminal Justice & Criminology academic literature base, pertaining to a particular subject within Criminal Justice and Criminology.
- Possess the ability to craft a brief, organized and coherent essay in response to a question, problem, or issue.
- Know what career options are available to them with the credential of a B.A. in Criminal Justice & Criminology, and how to pursue those career options.

Degree Requirements

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:

CJC 101	Introduction to Criminal Justice	3
CJC 319	Theoretical Criminology	3
CJC 363*	Introduction to Statistics in Sociology/Criminal Justice	3
CJC 470WI**	Capstone: Criminal Justice and Criminology	3
CJC 483 or CJC 486	Methods of Sociological Research Methods of Program Evaluation	3 3

* 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.

Two of the following are also required:

CJC 250	Introduction to Policing	3
CJC 260	Principles and Practices of Criminal Courts	3
CJC 265	Delinquency and Juvenile Justice	3
CJC 270	Principles of Corrections	3

Students should receive a grade of no lower than C- in the core required courses (CJC 101, 319, 363, 483, and 470WI) and an overall GPA of 2.0 in the 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. Students with more than one academic major may apply only 3 credit hours (usually the required research methods course) from another degree program toward the CJC major.

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 and Criminology (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 their 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 courses CJC 101 and CJC 483. At least 9 of the 18 credit hours must be in courses at the 300 or 400 level, in addition to at least 9 credit hours taken from UMKC. Only 3 credit hours from the major field of study may be applied toward a CJC minor.

Master of Science: Criminal Justice and Criminology

Application Procedures

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. This writing sample should be a two to three page letter requesting admission to the program. In the letter, applicants should identify how their undergraduate education and their work or personal experience has prepared them for graduate study in the area of criminal justice and criminology. Also, the letter should address how applicants view study in our graduate program as fitting with their future career or educational goals. 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 at least five months before the anticipated date of initial enrollment 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.

Admission Requirements

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 of 2.75 GPA in all undergraduate work, with a 3.0 GPA for courses within the socio-behavioral sciences area.
3. Completed undergraduate courses in statistics, research methods, and theories of crime.

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 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.

Student Learning Outcomes

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 six courses is required of all students. The required courses include:

Required Courses:Hours

CJC 5501	Proseminar to the Criminal Justice System	3
CJC 5580	Policy and Decision Making in Criminal Justice	3
CJC 5516	Intermediate Quantitative Methods (Statistics)	3
CJC 5518	Advanced Theoretical Criminology	3
CJC 5510	Sociological Research Methods I	3
-or-		
CJC 5511	Sociological Research Methods II	3

In addition, one of the following courses is required:

CJC 5551	Seminar in Policing	3
CJC 5570	Contemporary Corrections and Correctional Policy	3
CJC 5575	Correctional Rehabilitation and Treatment	3

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 12 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 12 hours of study will reflect the student's choice with respect to thesis or non-thesis options.

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.

Those electing the non-thesis option will take coursework and directed studies related to a cognate area. Their 12 hours of study beyond the required courses will address the area of specialization, or cognate area, selected by the student. There are five possible cognate areas from which to choose:

1. Policing.
2. Legal aspects of the criminal justice process.
3. Corrections.
4. Women and crime.
5. Juvenile justice, delinquency and gangs.

In their final semester, these students must successfully complete written comprehensive exams covering topic areas from the required courses as well as their cognate area of study.

Students must complete at least 3 hours of graduate work each semester (fall and spring) in order to maintain their standing in the program. At minimum, a 3.0 GPA must be attained in all work offered for graduate credit. Students should consult the General Graduate Academic Regulations and Information section of the UMKC catalog for regulations that apply to all graduate students.

Economics

Department of Economics

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Fred Lee, (816) 235-**2543**

IPhD Adviser:

Peter J. Eaton, (816) 235-**2832**

MA Adviser:

Linwood Tauheed, (816) 235-**6477**

Graduate Admissions:

Frederic Lee, (816) 235-**2543**

Administrative Assistant:

Deborah E. Foster, (816) 235-**2405**

Professors Emeriti:

W. Robert Brazelton, L. Kenneth Hubbell, A. Ross Shepherd, F. Eugene Wagner, John O. Ward

Professors:

Michael Hudson (distinguished research professor), Jan Kregel (distinguished research professor), Frederic S. Lee, James I. Sturgeon (chair), Karen S. Vorst (dean, arts and sciences), L. Randall Wray

Associate Professors:

William Black, Peter J. Eaton, Mathew Forstater, Stephanie Kelton

Assistant Professors:

Erik K. Olsen, Linwood Tauheed

Lecturers:

Judith Ancel, John Henry, Michael Kelsay, Ben Young

Affiliated Research Centers and Programs

Center for Economic Information:

Peter Eaton, director
Douglas Bowles, assistant director
Sara Ballew, programmer/analyst
Saima Sami, programmer/analyst

- 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. in Economics and Social Sciences
 - Graduate Economics (ECON) Courses
 - Graduate Social Sciences (SOC-SCI) Courses

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).

Center for Economic Information

Haag Hall, Room 210
5120 Rockhill Road
(816) 235-1394
<http://www.umkc.edu/cei/>

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.

Social Science Consortium

The department is the administrative home of the Social Science Consortium. The SSC is a co-discipline for the Interdisciplinary Ph.D. program. The SSC faculty is drawn from the departments of economics, political science and sociology.

Our Students

The department 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.

Current regular faculty membership consists of six professors, three associate professors, two assistant professors and four lecturers. The faculty are cooperative and highly interactive with students, resulting in several team-taught PACE block classes, other team-taught classes and collaborative research.

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.

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 Frederick Lee  , Undergraduate Adviser, (816) 235-2543 or <mailto:leefs@umkc.edu>.

Department Goals

As part of its urban mission, the department continues to expand its research, grants and service performance through the Center for Economic Information.

The immediate goals of the department are to:

1. Establish a nationally recognized reputation for research of planning based on GIS analysis through the CEI.
2. Expand UMKC's high-quality Interdisciplinary Ph.D. program, which uses the resources of the CEI and extensive, applied research experience of the department's faculty.
3. Maintain the highest standards of teaching quality in undergraduate and graduate programs.

Interdisciplinary Ph.D. in Economics and Social Sciences

The Department of Economics participates in the Interdisciplinary Ph.D. program.

The department also administers and participates in the Social Science Consortium which is a co-discipline in the Interdisciplinary Ph.D. program. For information about these programs see the School of Graduate Studies section in this catalog, contact the Department of Economics, (816) 235-1314, or Frederic Lee  , graduate adviser, (816) 235-2543, or leefs@umkc.edu.

Bachelor of Arts: Economics

Student Learning Outcomes

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 Frederick 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 Award

The Joe E. Brown Institutional Economics Award is given each year to an undergraduate student for outstanding academic performance in the study of institutional theory.

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 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

Student Learning Outcomes

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 adviser, Frederic Lee , (816) 235-2543, leefs@umkc.edu, to plan their

graduate program of study.

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 1000 or greater on the verbal and quantitative and at least a 4.0 on the analytical portions.

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
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.

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 maximum of 3 hours of 2.0 (C) in graduate courses will be permitted to count toward graduation. 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. 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**
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

Department Chairs:

Jeffrey Rydberg-Cox

Virginia Blanton, Associate Chair

Professors Emeriti:

Robert M. Farnsworth, Moira Ferguson, Daniel F. Jaffe, James McKinley, David Ray, Lois Spatz, Linda Voigts, David Weinglass, Robert Willson

Associate Professors Emeriti:

Ralph Berets, James A. Reeds, Jonas Spatz

Professors:

Michelle Boisseau, Joan F. Dean, Jeffrey Rydberg-Cox, Thomas Stroik

Associate Professors:

Virginia Blanton, Stephen Dilks, Laurie Ellinghausen, Jane Greer, Daniel Mahala, Jennifer Phegley, Michael Pritchett

Assistant Professors:

Hadara Bar-Nadav, John Barton, Jennifer Frangos, Christie Hodgen, Anthony Shiu, Robert Stewart

Full-time Lecturers:

Sheila Honig, Patricia Huyett, Katie Kline, Whitney Terrell

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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, 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 the Language and Literature track or the Manuscript, Print Culture, and Editing track. 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-14). 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, two 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.

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, who is the undergraduate faculty advisor.

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.

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.

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

Students graduating with an M.A. in English will be able to:

- Develop a critical understanding of the ways in which texts exist within broader aesthetic, social, and political contexts.
- Develop the ability to investigate the reception(s) of texts within their own time periods and at subsequent historical moments.
- Master the structural principles that have shaped traditional literary genres and forms, (e.g., sonnets, villanelles, bildungsromans, etc.).
- Appreciate the value of studying both the broad sweep of many texts within and across historical periods and the in-depth exploration of a single text.
- Express themselves well, both orally and in writing, to serve as eloquent advocates for their interpretive positions, and to disagree with civility.
- Engage with the vast array of information technologies available to them, including conducting research on-line, using classroom Web sites to further discussion with their peers and teachers, and connecting with the scholarly world beyond UMKC.
- Invite others to join in conversations about texts and language, either as teachers themselves or more informally in their lives beyond the classroom.
- Appreciate the beauties of language and share in the joy of textual interaction.
- Create their own innovative creative and scholarly writing that engages the principles listed above.

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.

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 34-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 interesting 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 34 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 5599 for their "Culminating Experience."

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) two years (four university semesters) of the same foreign language. With the approval of their advisor, students may fulfill the fourth semester of the requirement by taking ENGLISH 5503: Old English. Alternatively, the foreign language requirement may be satisfied by scoring a "C" on the final exam of the second-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, 5550G, 5555G

II. Language and Rhetoric

ENGLISH 400CH, 445/5545, 470, 5519, 5520, 5550J, 5550M, 5555J, 5555M

III. Literature Through the Middle Ages

ENGLISH 400CF, 412/5512, 422/5522, 452/5552, 5503, 5550A, 5550R, 5555A

IV. Renaissance Literature

ENGLISH 400CA, 413/5513, 414/5514, 423/5523, 451/5551, 452/5552, 461/5561, 5550B, 5555B, 5555R

V. Late 17th- and 18th-Century Literature

ENGLISH 415/5515, 416/5516, 426/5526,

* ENGLISH 455/5556,

ENGLISH 462/5562, 5550C, 5555C

VI. Nineteenth-Century Literature

** ENGLISH 410/5510,

- * ENGLISH 416/5516,
ENGLISH 418/5518, 426/5526,
- ** ENGLISH 440/5540,
- * ENGLISH 455/5556,
ENGLISH 5550D, 5550E, 5555D

VII. Twentieth-Century Literature

- ** ENGLISH 410/5510,
ENGLISH 417/5517, 427/5527, 428/5528,
- ** ENGLISH 440/5540
ENGLISH 453/5553, 463/5563, 465/5565, 5550F, 5555E, 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.

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, 447/5547, 470, 5519, 5520, 5550G/5555G, 5550J/5555J, 5550M/5555M, and 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.

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 34 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, 5510, 5512, 5513, 5514, 5515, 5516, 5517, 5518, 5522, 5523, 5526, 5527, 5528, 5531, 5534, 5540, 5545, 5550A, 5550B, 5550C, 5550D, 5550E, 5550F, 5550I, 5551, 5552, 5553, 5555A, 5555B, 5555C, 5555D, 5555E, 5555F, 5555I, 5556, 5561, 5562, 5563, 5565. New courses may receive the designation if approved by the Department of English's Graduate Committee.

Students who elect the concentration must complete ENGLISH 5599 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 one hour of ENGLISH 5599 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 ENGLISH 5599 is taken. After conducting a discussion about the paper and providing feedback for the student, the mentor and the review committee will assign a grade of pass or fail.

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 up to 20 pages long, in a single emphasis area (poetry, fiction, creative nonfiction, playwriting or screenwriting) is required (6-10 poems, 1-2 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 18 hours must be at the graduate level (courses numbered 5000 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.

Students must fulfill a foreign language requirement by satisfactorily completing (with a C or better) two years of the same foreign language at the university level. Unless taken above the 200 level, these courses will not count toward

graduation. With the approval of their advisor, students can fulfill the fourth semester of the requirement by taking ENGLISH 5503: Old English or another course approved by the student's advisor and the Director of Creative Writing. Alternatively, the foreign language requirement may be satisfied by scoring a C on the final exam of the second-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 focus on one or more of the following genres:

English: Poetry, Fiction, or Creative Nonfiction

Communications Studies: Screenwriting

Theatre: Playwriting

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 choose 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:

- Book of poems (48-80 pages)
- Book of short stories or creative non-fiction essays (180 pages)
- Novel or novel-length non-fiction essay (minimum of 180 pages)
- Full-length play or several one-act plays
- Full-length screenplay or several short screenplays
- Full-length cross-genre work, with the permission of the thesis director

At the completion of the writing project, the student will meet with his or her committee for a one-hour defense of the thesis.

Advisors 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.

Graduate Assistantships

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

Student Learning Outcomes

1. Students will develop the ability to read texts closely, critically, and analytically.
2. Students will become proficient writers.
3. Students will master a range of literary approaches that place texts within a cultural history and that explore texts (written, oral, musical, visual) as art, as language, and as cultural production.

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 33-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, 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.

The emphasis areas for prospective teachers of secondary English and of creative writing are for students with more specialized interests.

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 33-hour program (b). At least 18 of the 33 required credit hours listed below must be taken within the English department at UMKC:

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
ENGLISH 342WI Women and Rhetoric
ENGLISH 445 History and Principles of Rhetoric
ENGLISH 470 Introduction to Descriptive Linguistics

At least two of the following pre-1900 courses (6 credits):

ENGLISH 300 Cluster Course: Clio & Other Muses
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 400CF Courts and Culture in the Middle Ages
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

Two additional courses (6 credits):

Two additional 300- or 400-level literature courses in English (c)

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

(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 432, ENGLISH 435, ENGLISH 436, ENGLISH 437, ENGLISH 438) and no courses in journalism (ENGLISH 313WI, ENGLISH 401WI, ENGLISH 402) or expository writing (ENGLISH 301WI, ENGLISH 304WI, ENGLISH 305WI, ENGLISH 307WI, ENGLISH 430WI, ENGLISH 450) may be counted toward the basic 33-hour requirement for the regular English major.

(d) Requires approval of Director of Undergraduate Studies.

Correspondence Courses

The English Language and Literature Department will accept no more than six hours of correspondence credit toward the completion of the 33-hour program.

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 33-hour program. At least 18 of the 33 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

ENGLISH 342WI Women and Rhetoric

ENGLISH 445 History and Principles of Rhetoric
ENGLISH 470 Introduction to Descriptive Linguistics

One of the following (3 credits):

ENGLISH 300CD American Social Film: Silver Screen American Dream
ENGLISH 300CE Radical Changes Since 1945
ENGLISH 300 Clio & The Other Muses: Hist & Culture 5th-Century Athens
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 432 Creative Writing I Fiction and Advanced Creative Writing Prose
ENGLISH 312 / ENGLISH 437 Creative Writing I Fiction and Prose Forms
ENGLISH 315 / ENGLISH 436 Creative Writing Poetry and Poetic Forms
ENGLISH 315 / ENGLISH 437 Creative Writing Poetry and Prose Forms

Two additional writing courses not included above (6 credits):

ENGLISH 312 Creative Writing I Fiction
ENGLISH 315 Creative Writing Poetry
ENGLISH 405 Magazine Editing
ENGLISH 432 Advanced Creative Writing Prose
ENGLISH 435 Advanced Creative Writing Poetry
ENGLISH 436 Poetic Forms
ENGLISH 437 Prose Forms
ENGLISH 438 The New Letters Writing Conference
ENGLISH 448 External Internship
ENGLISH 449A Publication Practicum

The following may also qualify as additional writing courses (b):

THEATRE 437 Playwriting I
THEATRE 438 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 432 Advanced Creative Writing Prose
ENGLISH 435 Advanced Creative Writing Poetry
ENGLISH 436 Poetic Forms
ENGLISH 437 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.

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 432: Creative Writing I Fiction/ Advanced Creative Writing Prose

ENGLISH 312 / ENGLISH 437: Creative Writing I Fiction/ Prose Forms

ENGLISH 315 / ENGLISH 435: Creative Writing Poetry/ Advanced Creative Writing Poetry

ENGLISH 315 / ENGLISH 436: Creative Writing Poetry/ Poetic Forms

Two additional courses in creative writing, in addition to those taken for the writing sequence (6 credits):

THEATRE 437 Playwriting I

THEATRE 438 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 432 Advanced Creative Writing Prose

ENGLISH 435 Advanced Creative Writing Poetry

ENGLISH 436 Poetic Forms

ENGLISH 437 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.

THEATRE 437 Playwriting I
THEATRE 438 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 Writing in Cultural Contexts
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 432 Advanced Creative Writing Prose
ENGLISH 435 Advanced Creative Writing Poetry
ENGLISH 436 Poetic Forms

ENGLISH 437 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 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, 410, 412, 413, 414, 415, 416, 417, 418, 422, 423, 425, 426, 427, 428, 431, 434, 440, 445, 451, 452, 453, 455, 461, 462, 463, 465.

*External Internship must be coordinated with a publishing house and approved by the Director of Undergraduate Studies.

Environmental Design Studies (under Architecture)

Environmental Design Studies

See under Architecture:

Department of Architecture, Urban Planning and Design

Environmental Studies

Environmental Studies

[Robert H. Flarsheim Science and Technology Hall](#)

5110 Rockhill Road, Room 420

(816) 235-**1334**

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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:

Jimmy O. Adegoke

Professors:

Raymond M. Coveney, Jr. (principal graduate adviser; IPhD coordinator), Steven L. Driever (director, urban studies; principal undergraduate geography adviser), Syed E. Hasan (director, CAER), Wei Ji (graduate geography adviser), Tina M. Niemi (principal undergraduate geology adviser)

Associate Professors:

Jimmy O. Adegoke (chair), Caroline P. Davies (undergraduate environmental studies adviser; director, environmental studies program), Daniel P. Hopkins (undergraduate environmental studies adviser), James B. Murowchick

Assistant Professors:

Jejung Lee

Visiting Assistant Professors:

Julie L. Urbanik

Professors Emeriti:

Richard J. Gentile, Edwin D. Goebel, 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 Graduates
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 - Geography and Geology Minors
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 - Environmental Science (ENV-SCI)
 - Environmental Studies (ENV-STDY)
 - Geography (GEOG)
 - Geology (GEOLOGY)

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/foreign>

Mailing Address

University of Missouri-Kansas City
Department of Foreign Languages and Literatures
SH 216
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:

Kathy M. Krause

Professors Emeriti:

Patricia P. Brodsky, Rafael Espejo-Saavedra, Iman O. Khalil, Rosemarie Marfurt, Timothy A.B. Richards, Raymond T. Riva, Herwig G. Zauchenberger

Professors:

Louis Imperiale, Kathy M. Krause (chair)

Associate Professors:

K. Scott Baker, Rebecca L. Lee, Gayle Levy, Larson Powell,
Alice R. Reckley Vallejos

Assistant Professors:

Nacer Khelouz, Alberto Villamandos

Visiting Assistant Professors:

Lindsay 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
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- Minor in German Studies
- Undergraduate Courses
 - Foreign Language
 - Arabic
 - Chinese
 - French
 - German
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 - Italian
 - Latin
 - Spanish
- Master of Arts in Romance Languages
 - Student Learning Outcomes

- Program Requirements
- Graduate Courses
 - French
 - Spanish

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 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

	<i>First Semester</i>	
	Hours	
110*	5	
Curricular Requirements and Electives	10-11	
<i>Second Semester</i>		
120*	5	
Curricular Requirements and Electives	10-11	

Year II

	<i>First Semester</i>	
211*	3	
Curricular Requirements and Electives	9-13	
<i>Second Semester</i>		
221*	3	
Curricular Requirements and Electives	9-13	

Year III

	<i>First Semester</i>	
315*	3	
300/400 Literature and Civilization	6-9	
Curricular Requirements and Electives	3-6	
<i>Second Semester</i>		
325*	3	
300/400 Literature and Civilization	6-9	
Curricular Requirements and Electives	3-6	

Year IV

	<i>First Semester</i>	
		3
415*		
400 Literature	3-6	
499* Senior Seminar (Spanish) - Fall	3	
Electives	6-9	
<i>Second Semester</i>		
425	3	
400 Literature	3-6	
499* Senior Seminar (French, German) - Spring	3	
Electives	6-9	

* Required course

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

Student Learning Outcomes

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 9 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 each semester, 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. The program of study consists of 30 hours with a minimum of 18 hours at the 5500 level and a maximum of 12 hours on the 300 and 400 levels. A minimum GPA of 3.0 is required in all graduate work. It is highly recommended that students take courses in as many areas, genres and periods as possible in order to achieve both breadth and depth of knowledge. Students must obtain approval of their study programs by the graduate adviser before each term.
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: Spanish students must take a final written examination covering the coursework taken for the degree; French students must take a final oral examination.
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:
 - o Taking a reading examination in French, Spanish, Italian, German or Latin administered or approved by the department or given by the Educational Testing Service.
 - o Achieving a grade of 3.0 (B) or better in a 3-hour 200-level language course.
 - o 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.

Bachelor of Arts: French, German, Spanish

Student Learning Outcomes

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 120 or their equivalent. Successful completion of a second-year course (normally 211 and 221 or their equivalent) is required of all students who want to enroll in 300- or 400-level courses. Exceptions must have the approval of the student's 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: Gayle Levy
(816) 235-2820, levyg@umkc.edu
German: K. Scott Baker
(816) 235-2823, bakerks@umkc.edu
Spanish: Rebecca Lee
(816) 235-2827, leerebe@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.

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. 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.)

Departmental testing, "Credit by Examination," also is available. Students should first speak to the appropriate undergraduate adviser. Generally, arrangements are made with an instructor to take the final examination with the appropriate class. Forms are available at Registration. The signatures of the registrar, instructor, dean and cashier must be obtained, in that order. The fee must be paid and the instructor must receive the signed, completed form before the student may take the examination. 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 and need to obtain approval of their course programs each semester. 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 the following.
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 must take 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 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, 120: Elementary German I & II
- GERMAN 211, 221: Second-Year German I & II
- GERMAN 315, 325: Intermediate Conversation and Composition I & II
- GERMAN 415, 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:

- Foreign Language 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 437A, Imperial Germanies, 1848-1918
- HISTORY 437B, First German Republics, 1917-1935
- HISTORY 437C, The Third Reich, 1930-1950
- HISTORY 437D, 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 554, Medieval Music

- CONSVTY 557, Music of the Classical Era

- CONSVTY 558, Music of the Romantic Era

- CONSVTY 559A, Music since 1900: 1900-1945

- CONSVTY 560B, 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:

Jimmy O. Adegoke

Professors:

Raymond M. Coveney, Jr. (principal graduate adviser; IPhD coordinator), Steven L. Driever (director, urban studies; principal undergraduate geography adviser), Syed E. Hasan (director, CAER), Wei Ji (graduate geography adviser), Tina M. Niemi (principal undergraduate geology adviser)

Associate Professors:

Jimmy O. Adegoke (chair), Caroline P. Davies (undergraduate environmental studies adviser; director, environmental studies program), Daniel P. Hopkins (undergraduate environmental studies adviser), James B. Murowchick

Assistant Professors:

Jejung Lee

Visiting Assistant Professors:

Julie L. Urbanik

Professors Emeriti:

Richard J. Gentile, Edwin D. Goebel, Paul L. Hilpman, Eldon J. Parizek

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- Graduate Courses
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Department Description

The Department of Geosciences offers programs of study leading to bachelor of science 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, 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. weekdays and 10:00 a.m. to 4:00 p.m. Saturdays, whenever school is in session. 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 make 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, Jacob Wagner

Participating Chemistry Faculty:

Yanching (Jerry) Jean, Kathleen Kilway, J. David VanHorn, Charles Wurrey

Participating Civil and Mechanical Engineering Faculty:

John Kevern

Participating Computing and Engineering Faculty:

Deborah O'Bannon, Jerry Richardson

Participating Economics Faculty:

Michael Kelsay, Mathew Forstater

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, 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

The interdisciplinary environmental studies degree program of The College of Arts and Sciences provides educational opportunities for undergraduate students along two distinct tracks leading to a bachelor of arts degree in environmental studies or a bachelor of science degree in environmental studies. The program is designed to meet pressing needs in the workforce and the urban community, producing college graduates who are broadly educated in issues of the environment and who can communicate effectively. The core of the program consists of a unique blend of required courses supplemented by key electives dependent upon the particular interests and needs of students. Required courses span the fields of the biological, physical, and social sciences and the humanities. (See the Environmental Studies Web site <http://cas.umkc.edu/esp> for more information.)

Geography and Geology Programs

Professors:

Raymond M. Coveney Jr. (principal graduate adviser), Steven L. Driever (principal undergraduate geography adviser; director, Urban Studies), Syed E. Hasan (director, CAER), Wei Ji (graduate geography adviser), Tina Niemi (principal undergraduate geology adviser)

Associate Professors:

Jimmy Adegoke (chair), Caroline P. Davies (undergraduate environmental studies adviser, BS; director, Environmental Studies Program), Daniel P. Hopkins (undergraduate environmental studies adviser, B.A.), James B. Murowchick

Assistant Professors:

Jejung Lee

Visiting Assistant Professors:

Jullie L. Urbanik

Professors Emeriti:

Richard J. Gentile, Edwin D. Goebel, Paul L. Hilpman, Eldon J. Parizek

Program Description

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.

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, 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

GEOG 401/5507 Advanced Geographic Information Science 4

Choose Three from the Following (9-10 credit hours)

GEOG 402/5502 Environmental Remote Sensing and Digital Image Analysis 4

GEOG 444/5544 Geocomputation for Earth and Environmental Sciences 3

GEOG 448/5548 Satellite Climatology 3

GEOG 5598D Special Topics in Advanced GIS and Remote Sensing 3

UPD 300 Quantative Methods in Planning 3

UPD 400 Advanced GIS for Urban Planning 3

CJC 5592 Advanced GIS for Crime Analysis 3

E&C-ENGR 484/5590IP Introduction to Digital Image Processing 3

COMP-SCI 352 Data Structures and Algorithms 3

COMP-SCI 471 Database Design, Implementation and Validation 3

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>

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 the waste management 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 disposal facilities and a 5-day OSHA-approved Hazardous Waste Operator Training (HAZWOPER) course are included in the curriculum.

Required Courses

ENV-SCI 310 Field Experience in Waste Management
GEOLOGY 335 Introduction to Waste Management
GEOLOGY 5512 Geology and Hazardous Waste Management
GEOLOGY 5534 Hazardous Waste Operation Management
GEOLOGY 5570 Hydrogeology
GEOLOGY 5597 Graduate Seminar

Master of Science : Environmental and Urban Geosciences

Students in all graduate programs in which the Department of Geosciences participates are required to complete and publicly defend their thesis or dissertation before they can be awarded their M.S. or doctoral degree. Doctoral students must also pass a comprehensive examination.

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 allows students to select an emphasis area for more intensive study, all students are required to 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 studies, geography, 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.
3. Two letters of recommendation from academic and/or professional referees.

With department approval, students with non-geoscience undergraduate degrees may be admitted on a non-regular degree-seeking basis (Code 6-V). After successfully completing recommended courses for the appropriate undergraduate geoscience degree, including prerequisites, these students may be granted degree-seeking status.

Graduate Assistantships

Teaching and research assistantships are awarded on a competitive basis to incoming graduate students. Assistantship applications and all supporting materials should be submitted by March 15 for fall enrollment. GRE scores may be used to assign assistantships.

Core Curriculum

Hours

GEOG 5544 Spatial Data Analysis 3
GEOG 5595 Graduate Seminar I 1
/GEOLOGY 5595
GEOG 5597 Graduate Seminar II 3

/GEOLOGY 5597
GEOG 5599 Research and Thesis 3-6
/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 4
GEOG 5506 Global Environmental Change 3
GEOG 5507 Advanced Geographic Information Science 4

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
GEOLOGY 5570 Hydrogeology 3

One of the following:

GEOLOGY 5531 X-ray Methods in Geosciences

-and-

GEOL 5532 ICPMS Applications 4
GEOLOGY 5535 Aqueous Geochemistry 3
GEOLOGY 5541 Environmental Geophysics 3

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 5503 History and Philosophy of Geography 3
GEOG 5507 Advanced Geographic Information Science 4
GEOG 5509 Urban Geography 3

Other coursework may include appropriate geography courses, as well as related departmental courses and cognate courses in other departments. Requirements for Retention

1. For newly admitted graduate students, elimination of all undergraduate deficiencies (if any) in the undergraduate major and its supporting prerequisites is required upon or before the completion of the first 12 hours of coursework for graduate credit. No graduate credit can be given for undergraduate courses taken to remove deficiencies.
2. All students are required to pass a qualifying examination administered by the department during their first year.
3. 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 Geocomputation for Earth and Environmental Sciences
GEOG 448 Satellite Climatology
All **Geology** courses

Social Science Area Requirements

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, 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
GEOG [401/5507](#) Advanced Geographic Information Science 4

Choose Three from the Following (9-10 credit hours)

GEOG [402/5502](#) Environmental Remote Sensing and Digital Image Analysis 4
GEOG [444/5544](#) Geocomputation for Earth and Environmental Sciences 3
GEOG [448/5548](#) Satellite Climatology 3
GEOG [5598D](#) Special Topics in Advanced GIS and Remote Sensing 3
UPD [300](#) Quantitative Methods in Planning 3
UPD 400 Advanced GIS for Urban Planning 3

CJC [5592](#)

Advanced GIS for Crime Analysis

3

E&C-ENGR [484/5590IP](#) Introduction to Digital

Image Processing 3

COMP-SCI [352](#) Data Structures and Algorithms 3

COMP-SCI [471](#) Database Design, Implementation
and Validation 3

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

Geosciences and Environmental Studies students complete a written major field examination focusing on the subject area for each undergraduate program prior to receiving a degree (B.A./B.S. Environmental Studies; B.A./B.S. Geography; B.A./B.S. Geology).

Bachelor of Science/Bachelor of Arts: Environmental Studies

Degree Requirements

B.A. Environmental Studies:

B.A. Program Coordinator:

Daniel P. Hopkins, (816) 235-1334

Core Requirements:

Hours

ENV-SCI 110R Understanding the Earth

ENV-SCI 110L w/Lab 5

CHEM 160 Chemistry, Society...3

ENV-SCI [210](#) Issues in Environmental Science 3

ENV-STDY [499WI](#) Environmental Studies

Practicum 3

Choose three courses, each from a different department:

ECON [420](#) Environment, Resources and

Economic Growth 3

GEOG [203](#) Introduction to Geographic

Information Systems or GEOG 317 Cartography 4

GEOG 215 Introduction to Weather and

Climate 4

GEOG [406](#) Global Environmental Change 3

HISTORY [364R](#) Nature and Culture: American

Environmental History 3

PHILOS [370](#) Environmental Ethics 3

POL-SCI 380 Environmental Justice 3

UPD [432](#) Urban Environmental Planning
and Design 3

Choose four courses from the following:

At least one course must be taken from
each of the three divisions of learning:

Natural Sciences(NS); Social Sciences(SS);
and Ethics, Jurisprudence, and Culture(E).

Core courses cannot also be counted for credit
in this section.

Core Requirements: Hours

Natural Sciences (NS):

- BIOLOGY [302](#) Ecology (NS) 3
- BIOLOGY [303](#) Invertebrate Zoology (NS) 3
- BIOLOGY [305](#) Marine and Freshwater Biology (NS) 3
- BIOLOGY [308](#) Vertebrate Zoology (NS) 3
- BIOLOGY [346](#) Plant Biology (NS) 3
- CIV-ENGR [454](#) River Stability and Scour (NS) 3

CHEM [211](#) General Chemistry I

CHEM [211L](#) w/Lab (NS) 5

CHEM [212R](#) General Chemistry II

CHEM [212LR](#) w/Lab (NS) 5

ENV-SCI [310](#) Field Experience

in Waste Management (NS) 3

ENV-SCI [332CZ](#) Environmental Sustainability (NS) 3

ENV-SCI [496](#) Environmental Internship (NS)1-4

All Physical Geography courses are applicable as natural science electives:

GEOG [203](#) Intro. to GIS (NS) 4

GEOG [314](#) Principles of Geomorphology (NS) 4

GEOG [317](#) Cartography(NS) 4

GEOG [319](#) Descriptive and Synoptic Meteorology (NS) 4

GEOG [335](#) Introduction to Waste Management (NS) 3

GEOG [360](#) Principles of Biogeography(NS) 3

GEOG [401](#) Advanced GIS (NS) 4

GEOG [402](#) Environmental Remote Sensing

& Digital Image Analysis(NS) 4

GEOG [406](#) Global Environmental Change(NS) 3

GEOG [430](#) Energy Resources (NS) 3

GEOG [435](#) Geoarchaeology (NS) 3

GEOG [442](#) Quaternary Environments(NS) 3

GEOG [444](#) Spatial Data Analysis (NS) 3

GEOG [448](#) Satellite Climatology (NS) 3

Any Geology course may be used for additional natural science electives, but the following courses are particularly relevant
to the environmental studies major:

GEOLOGY [220](#) General Geology(NS) 3

GEOLOGY [250](#) Field Methods(Campus)(NS) 3

-or-

GEOLOGY [251](#) Field Methods(Off-campus)(NS) 3

GEOLOGY 302 Environmental Geology(NS) 3

GEOLOGY 312 Mineralogy (NS) 4

GEOLOGY 313 Evolution and the Geologic
Record(NS) 4

GEOLOGY 314 Principles of Geomorphology (NS) 4

GEOLOGY 325 Sedimentology/Stratigraphy (NS) 4

GEOLOGY 326CZ Archaeology of Ancient Disasters (NS) 3

GEOLOGY 335 Introduction to Waste
Management (NS) 3

GEOLOGY 370R Hydrogeology (NS) 3

GEOLOGY 404 Fluid Transport in Geologic Media (NS) 3

GEOLOGY 409 Field School in Archaeology (NS) 3

GEOLOGY 412 Geology and Hazardous Waste Management (NS) 3

GEOLOGY 460 Geochemistry (NS) 3

MATH 235 Elementary Statistics(NS) 3

Social Sciences(SS):

ECON 420 Environment, Resources,
and Economic Growth (SS) 3

ENV-SCI 332CZ Environmental Sustainability (NS) 3

GEOG 309 Urban Geography (SS) 3

GEOG 311 Economic Geography (NS) 3

GEOG 333 Urban Planning (SS) 3

GEOG 437 Population Geography(SS) 3

GEOG 460 Transportation Geography

HISTORY 356 Rise of the City US (SS) 3

HISTORY 356R KC: History of a

Regional Metropolis (SS) 3

PUB-ADM 497 Urban Environmental Policy(SS) 3

POL-SCI 380 Environmental Justice(SS) 3

PSYCH 403 Environmental Psychology(SS) 3

UPD 270 Planning Theory & Practice(SS) 3

UPD 280 Landuse (SS) 3

UPD 420 Transportation Planning (SS) 3

UPD 432 Urban Environmental Planning
and Design(SS) 3

ENV-DSN 413 Environmental Systems in Architecture I (SS) 3

Ethics, Jurisprudence and Culture(E):

GEOG 200 World Regional Geography I (E)

GEOG 202 World Regional Geography II (E) 3

GEOG 210 Human Geography (E) 3
GEOG 329 World Political Geography (E) 3
GEOG 332 Cultural Geography (E) 3
GEOG 340 Regional Geography of the United States and Canada (E) 3
GEOG 341 Regional Geography of South America (E) 3
GEOG 342 Regional Geography of Mexico, Central America, and the Caribbean (E) 3
GEOG 350 Regional Geography of Europe (E) 3
GEOG 355 Regional Geography of Africa (E) 3
GEOG 403WI History and Philosophy of Geoscience (E) 3
GEOG 499WI Geography Seminar (E) 3
HISTORY 364R Nature & Culture: American
Environmental History(E) 3
LAW 8725 Water Law(E) 3
LAW 8728 Law and the American Indian(E) 3
LAW 8729 Preservation Law(E) 3
LAW 8773 Environmental Law(E) 3
LAW 8782 Environmental Law Seminar(E) 3
PHILOS 334 Philosophy of Science(E) 3
PHILOS 338 Philosophy of Biology(E) 3
PHILOS 370 Environmental Ethics(E) 3
UPD 260 History of Planning(E) 3

UPD 450 Planning and Law Practices (E) 3

Minimum Core Courses from Above: 35

Distribution Electives and
General Education Requirements: 85

Minimum Total Hours: 120

B.S. Environmental Studies:

B.S. Program Coordinator:
Caroline P. Davies, (816) 235-1334

Core Requirements:
Hours

ENV-SCI 110R Understanding the Earth
ENV-SCI 110L w/Lab 5
ENV-SCI 210 Issues in Environmental Science 3
GEOG 215 Intro to Weather and Climate 4
GEOLOGY 250 Field Methods(Campus) 3
-or-

GEOLOGY 251 Field Methods(Off-campus) 3

ENV-STDY 499WI Environmental Studies
Practicum 3

Required Supporting Sciences:

BIOLOGY 108 General Biology I

BIOLOGY 108L w/Lab 5

BIOLOGY 109 General Biology I

BIOLOGY 109L w/Lab 5

CHEM 211 General Chemistry I

CHEM 211L w/Lab 5

CHEM 212R General Chemistry II

CHEM 212LR w/Lab 5

MATH 235 Elementary Statistics 3

Choose four courses from the following:

At least one course must be taken from

each of the three divisions of learning:

Natural Sciences(NS); Social Sciences(SS);

and Ethics, Jurisprudence and Culture(E).

Core courses cannot also be counted for credit.

in this section.

Natural Sciences(NS):

BIOLOGY 302 Ecology(NS) 3

BIOLOGY 303 Invertebrate Zoology(NS) 3

BIOLOGY 305 Marine and Freshwater Biology (NS) 3

BIOLOGY 308 Vertebrate Zoology (NS) 3

BIOLOGY 346 Plant Biology (NS) 3

CIV-ENGR 454 River Stability and Scour(NS) 3

CHEM 387 Environmental Chemistry(NS) 3

ENV-SCI 310 Field Experience

in Waste Management(NS) 3

ENV-SCI 332CZ Environmental Sustainability (NS) 3

ENV-SCI 496 Environmental Internship(NS) 1-4

All Physical Geography courses are applicable natural science electives:

GEOG 203 Intro to GIS(NS) 4

GEOG 314 Principles of Geomorphology(NS) 4

GEOG 317 Cartography(NS) 4

GEOG 319 Descriptive and Synoptic Meteorology (NS) 4

GEOG 335 Introduction to Waste Management (NS) 3

GEOG 360 Principles of Biogeography(NS) 3

GEOG 401 Advanced GIS(NS) 4

GEOG 402 Environmental Remote Sensing

& Digital Image Analysis (NS) 4

GEOG 406 Global Environmental Change (NS) 3

GEOG 430 Energy Resources (NS) 3

GEOG 435 Geoarchaeology (NS) 3

GEOG 442 Quaternary Environments(NS) 3

GEOG 444 Spatial Data Analysis (NS) 3

GEOG 448 Satellite Climatology (NS) 3

All Geology courses may be used for additional natural science electives, but the following courses are particularly relevant to the environmental studies major:

GEOLOGY 220 General Geology(NS) 3

GEOLOGY 302 Environmental Geology(NS) 3

GEOLOGY 312 Mineralogy (NS) 4

GEOLOGY 313 Evolution and the Geologic Record(NS) 4

GEOLOGY 314 Principles of Geomorphology 4

GEOLOGY 325 Sedimentology/Stratigraphy (NS) 4

GEOLOGY 326CZ Archaeology of Ancient Disasters (NS) 3

GEOLOGY 335 Introduction to Waste Management(NS) 3

GEOLOGY 370R Hydrogeology (NS) 3

GEOLOGY 404 Fluid Transport in Geologic Media (NS) 3

GEOLOGY 409 Field School in Archaeology (NS) 3

GEOLOGY 412 Geology and Hazardous Waste Management (NS) 3

GEOLOGY 460 Geochemistry (NS) 3

Social Sciences(SS):

ECON 420 Environment, Resources, and Economic Growth(SS) 3

ENV-SCI 332CZ Environmental Sustainability (SS) 3

GEOG 309 Urban Geography(SS) 4

GEOG 311 Economic Geography (SS) 3

GEOG 333 Geographic Elements of Urban Planning (SS) 3

GEOG 437 Population Geography(SS) 3

GEOG 460 Transportation Geography (SS) 3

HISTORY 356 Rise of the City US(SS) 3

HISTORY 356R KC: History of a Regional Metropolis(SS) 3

PUB-ADM 497 Urban Environmental Policy(SS) 3

POL-SCI 380 Environmental Justice(SS) 3

PSYCH 403 Environmental Psychology(SS) 3

UPD 270 Planning Theory & Practice(SS) 3

UPD 280 Landuse (SS) 3

UPD 420 Transportation Planning (SS) 3

UPD 432 Urban Environmental Planning
and Design(SS) 3

ENV-DSN 413 Environmental Systems in Architecture I (SS) 3
Ethics, Jurisprudence and Culture(E):

GEOG 200 World Regional Geography I (E) 3

GEOG 202 World Regional Geography II (E) 3

GEOG 210 Human Geography (E) 3

GEOG 329 World Political Geography (E) 3

GEOG 332 Cultural Geography (E) 3

GEOG 341 Geography of South America (E) 3

GEOG 342 Geography of Mexico, Central America and the Caribbean (E) 3

GEOG 340 Geography of the United States and Canada (E) 3

GEOG 350 Geography of Europe (E) 3

GEOG 355 Geography of Africa (E) 3

GEOG 403WI History and Philosophy of Geoscience (E) 3

GEOG 499WI Geography Seminar (E) 3

HISTORY 364R Nature & Culture: American
Environmental History(E) 3

LAW 8725 Water Law(E) 3

LAW 8728 Law and the American Indian(E) 3

LAW 8729 Preservation Law(E) 3

LAW 8773 Environmental Law(E) 3

LAW 8782 Environmental Law Seminar(E) 3

PHILOS 334 Philosophy of Science(E) 3

PHILOS 338 Philosophy of Biology(E) 3

PHILOS 370 Environmental Ethics(E) 3

UPD 260 History of Planning(E) 3

UPD 450 Planning Law and Practices (E) 3

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. A list of approved courses may be found below.

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:

Hours

ENV-SCI 110R	Understanding the Earth	3
ENV-SCI 110L	Understanding the Earth Lab	2
ENV-SCI 210	Issues in Environmental Science	3

One of the following electives:

ECON 420*	Environment, Resources and Economic Growth	3
HISTORY 364R*	Nature, Culture and the Human Experience	3
HISTORY 365A*	American Environmental History	3
PHILOS 370*	Environmental Ethics	3
PSYCH 403*	Environmental Psychology	3
POL-SCI 435*	Politics of the Environment	3

*May not be counted in both required and elective categories.

Electives

See the electives listed under B.A. Environmental Studies.

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:

Hours

ENV-SCI 110R	Understanding the Earth	3
ENV-SCI 110L	Understanding the Earth Lab	2
ENV-SCI 210	Issues in Environmental Science	3
CHEM 160	Chemistry, Society, and the Environment	3

One of the following electives:

ECON 420*	Environment, Resources and Economic Growth	3
HISTORY 364R*	Nature, Culture and the Human Experience	3
HISTORY 365A*	American Environmental History	3
PHILOS 370*	Environmental Ethics	3

PSYCH 403*	Environmental Psychology	3
POL-SCI 435*	Politics of the Environment	3

*May not be counted in both required and elective categories.

Electives

See the electives listed under B.S. Environmental Studies.

Bachelor of Science/Bachelor of Arts: Geography

Bachelor of Arts: Geography*

Required Courses:

Hours

ENV-SCI 110R	Understanding the Earth	
ENV-SCI 110L	w/Lab	5
GEOG 200	World Geography I	3
	-or-	
GEOG 202	World Geography II	3
GEOG 203	Intro to GIS	4
GEOG 317	Cartography	4
GEOG 398	Field Trip	1
GEOG 499WI	Senior Seminar	3
Any Four Courses (Human and Regional Geography):		
GEOG 210	Human Geography	3
GEOG 309	Urban Geography	3
GEOG 311	Economic Geography	3
GEOG 329	World Political Geography	3
GEOG 332	Cultural Geography	3
GEOG 333	Introduction to Urban Planning	3
GEOG 340	Regional Geography of the US and Canada	3
GEOG 341	Regional Geography of South America	3
GEOG 342	Regional Geography of Mexico, Central America & the Caribbean	3
GEOG 350	Regional Geography of Europe	3
GEOG 403WI	History and Philosophy Geography	3
GEOG 437	Population Geography	3
GEOG 460	Transportation Geography	3
Other Regional Courses: One or two 300-level courses		3-6
Any Three Courses (Physical Geography):		
GEOG 215	Intro to Weather and Climate	4
GEOG 314	Principles of Geomorphology	4
GEOG 319	Descriptive and Synoptic Meteorology	4
GEOG 335	Introduction to Waste Management	3
GEOG 336	Principles of Soil Science	3
GEOG 360	Principles of Biogeography	3
GEOG 402	Environmental Remote Sensing & Digital Image Analysis(NS)	4
GEOG 404	Biogeography and Landscape	

Ecology	3	
GEOG 406	Global Environmental Change	3
GEOG 426	Paleoecology: Microfossils and Climate Change	3
GEOG 430	Energy Resources	3
GEOG 435	Geoarchaeology	3
GEOG 442	Quaternary Environments	3
GEOG 444	Spatial Data Analysis	3
GEOG 448	Satellite Climatology	3
Supporting Requisites (3 Hours):		
A fourth semester of a foreign language**		3

*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: Geography*

Required Courses:

Hours

ENV-SCI 110R	Understanding the Earth	
ENV-SCI 110L	w/Lab	5
GEOG 200	World Geography I	3
-or-		
GEOG 202	World Geography II	3
GEOG 203	Intro to GIS	4
GEOG 317	Cartography	4
GEOG 398	Field Trip	1
GEOG 499WI	Senior Seminar	3
Any Three Courses (Human and Regional Geography):		
GEOG 210	Human Geography	3
GEOG 309	Urban Geography	3
GEOG 311	Economic Geography	3
GEOG 329	World Political Geography	3
GEOG 332	Cultural Geography	3
GEOG 333	Introduction to Urban Planning	3
GEOG 341	Regional Geography of South America	3
GEOG 350	Regional Geography of Europe	3
GEOG 403WI	History and Philosophy Geography	3
GEOG 437	Population Geography	3
GEOG 460	Transportation Geography	3
Other Regional Courses: One or two 300-level courses		3-6
Any Four Courses (Physical Geography):		
GEOG 215	Intro to Weather and Climate	4
GEOG 314	Principles of Geomorphology	4
GEOG 319	Descriptive and Synoptic Meteorology	4
GEOG 335	Introduction to Waste Management	3
GEOG 336	Principles of Soil Science	3
GEOG 360	Principles of Biogeography	3
GEOG 402	Environmental Remote Sensing & Digital Image Analysis(NS)	4

GEOG 404	Biogeography and Landscape Ecology	3	
GEOG 406	Global Environmental Change		3
GEOG 426	Paleoecology: Microfossils and Climate Change		3
GEOG 430	Energy Resources	3	
GEOG 435	Geoarchaeology	3	
GEOG 442	Quaternary Environments	3	
GEOG 444	Spatial Data Analysis	3	
GEOG 448	Satellite Climatology	3	
Supporting Requisites (3 Hours):**			
MATH 235	Statistics	3	

*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:

Hours

Required Courses: (29 hours)

GEOLOGY 220	General Geology		
GEOLOGY 220L	w/Lab	5	
GEOLOGY 250	Field Methods(Campus)	3	
-or-			
GEOLOGY 251	Field Methods(Off-campus)	3	
GEOLOGY 312	Mineralogy	4	
GEOLOGY 313	Evolution and the Geologic Record	4	
GEOLOGY 350	Earth Structures and Tectonics	4	
GEOLOGY 490	Geology Field Camp	6	
GEOLOGY 499WI	Senior Seminar	3	

B.A. Supporting Requisites:

BIOLOGY 108*	General Biology	5	
MATH 235	Elementary Statistics	3	
CHEM 211	General Chemistry I	4	
CHEM 211L	General Chemistry I Lab	1	
PHYSICS 210	General Physics	4	

Choose Four of the Following: (12-16 credit hours)

Recommended Electives:

GEOG 203	Introduction to GIS	4	
GEOLOGY 314	Principles of Geomorphology	4	
GEOLOGY 325	Sedimentology/Stratigraphy	4	
GEOLOGY 342	Igneous and Metamorphic Petrology	4	
GEOLOGY 370R	Hydrogeology	3	
GEOG 401	Advanced GIS	4	

GEOLOGY 404	Fluid Transport in Geologic Media	3	
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GEOLOGY 407	Public Archaeology: Issues in Archaeology Resources	3
GEOLOGY 408	Archaeological Field Survey Methods	3
GEOLOGY 409	Field School in Archaeology	3-5
GEOLOGY 411	Mineral Deposits	3
GEOLOGY 412	Geology and Hazardous Waste Management	3
GEOLOGY 441	Environmental Geophysics	3
GEOLOGY 442R	Optical Mineralogy	3
GEOG 442	Quaternary Environments	3
GEOLOGY 460	Introduction to Geochemistry	3
GEOLOGY 471	Tectonics	3
GEOLOGY 472	Earthquake Geology	3

* High school biology satisfies this requirement.

Bachelor of Science: Geology

Required Courses:

Hours

Required Courses: (29 hours)		
GEOLOGY 220	General Geology	
GEOLOGY 220L	w/Lab	5
GEOLOGY 250	Field Methods(Campus)	3
-or-		
GEOLOGY 251	Field Methods(Off-campus)	3
GEOLOGY 312	Mineralogy	4
GEOLOGY 313	Evolution and the Geologic Record	4
GEOLOGY 350	Earth Structures and Tectonics	4
GEOLOGY 490	Geology Field Camp	6
GEOLOGY 499WI	Senior Seminar	3
B.S. Supporting Requisites:		
BIOLOGY 108*	General Biology	5
MATH 210	Calculus I	4
MATH 235	Elementary Statistics	3
-or-		
GEOG 444	Spatial Data Analysis	3
CHEM 211	General Chemistry I	4
CHEM 211L	General Chemistry I Lab	1
CHEM 212R	General Chemistry II	4
CHEM 212LR	General Chemistry II Lab	1
PHYSICS 240**	General Physics I (-or-210)	5(4)
PHYSICS 250**	General Physics II (-or-220)	5(4)

Choose Four of the Following: (12-16 credit hours)

Recommended Electives:

GEOG 203	Introduction to GIS	4
GEOLOGY 314	Principles of Geomorphology	4
GEOLOGY 325	Sedimentology/Stratigraphy	4
GEOLOGY 342	Igneous and Metamorphic Petrology	4

GEOLOGY 370R	Hydrogeology	3
GEOG 401	Advanced GIS	4
GEOLOGY 404	Fluid Transport of Geologic Media	3
GEOLOGY 407	Public Archaeology: Issues in Archaeology Resources	3
GEOLOGY 408	Archaeology Field Survey Methods	3
GEOLOGY 409	Field School in Archaeology	3-5
GEOLOGY 411	Mineral Deposits	3
GEOLOGY 412	Geology and Hazardous Waste Management	3
GEOLOGY 441	Environmental Geophysics	3
GEOLOGY 442R	Optical Mineralogy	3
GEOG 442	Quaternary Environments	3
GEOLOGY 460	Introduction to Geochemistry	3
GEOLOGY 471	Tectonics	3
GEOLOGY 472	Earthquake Geology	3

** Physics for Science and Engineering (240/250) are the preferred courses for the professional degree.* 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, 417, 489 and 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, 417 and 499WI do not count as credit in a minor program in geology.

History

Department of History

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Mailing Address

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CH 203
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Department Chair:

Gary L. Ebersole

Professors Emeriti:

Jesse V. Clardy, John T. Graham, Herman M. Hattaway, Lawrence H. Larsen, Stanley B. Parsons, Patrick A. Peebles,
Joseph P. Schultz

Professors:

Gary L. Ebersole (chair), Miriam Forman-Brunell, Carla L. Klausner (IPhd principal adviser), Dennis Merrill, Linda Mitchell, Louis W. Potts

Associate Professors:

William B. Ashworth Jr., Andrew Bergerson, James S. Falls (principal undergraduate adviser), Lynda Payne, Linna Place (internship director), Shona Kelly Wray

Assistant Professors:

Diane Mutti Burke, Jessie Choo, Viviana L. Grieco, John Herron, Pellom McDaniels, Mary Ann Wynkoop (American Studies adviser)

Adjunct Faculty:

Charles Coulter, Evelyn Hunt, Cynthia Jones, Gary Palmer, Frederick Spletstoser, Fran Sternberg, William Worley

- 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. The bachelor of arts degree in history is more directly applicable to careers in law, teaching, museum work, archival work, administration of historical agencies and selected positions in government. The principal undergraduate adviser can offer counsel on careers for graduates in history in both the private and public sectors.

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 adviser, Andrew Bergerson, or for the Interdisciplinary Ph.D. program, contact Carla L. Klausner  .

Department Activities

Advising

Counseling is key to a meaningful and profitable course of study in the department. Students should consult the principal undergraduate faculty adviser regarding selection of courses and for help in academic matters. Students may select an adviser, or an adviser can be appointed by the principal undergraduate adviser. 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.

History and Philosophy of Science

The Department of History, in cooperation with the Department of Philosophy and the various departments of science throughout the University, offers a flexible program in the history and philosophy of science. For more information, contact William B. Ashworth at 816-926-8719 or by e-mail ashwortb@lhl.lib.mo.us

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 at (816) 235-**5394** or by e-mail placel@umkc.edu. For course offerings in material culture, contact Miriam Forman-Brunell at (816) 235-**5220** or by e-mail forman-brunellm@umkc.edu.

Honorary Organization

The department sponsors a chapter of the national history fraternity Phi Alpha Theta. Admission into the fraternity requires a 3.2 GPA in a minimum of 12 upper-level credit hours. The fraternity sponsors programs and lectures during the school year, and members often are invited to read papers at the regional conventions of the fraternity. The chapter sponsor is James S. Falls. Contact him at (816) 235-**2545** or by e-mail fallsj@umkc.edu.

History Club

Another organization available to students is the History Club, founded in 1999 with the purpose of promoting the study of history. The club is open to all students, history majors and nonmajors. The club sponsor is James S. Falls. Contact him at (816) 235-**2545** or by e-mail fallsj@umkc.edu.

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, Carla Klausner  .

Master of Arts: History

Student Learning Outcomes

This master's program is designed for students who have already 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 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:

- How to think critically about and conduct effective research into the past.
- How to compose this research into an eloquent story about the past on the basis of primary, secondary and theoretical sources in critical debate with other historians about historical events, interpretations, methodology, theory and historiography.
- How to communicate their histories in a variety of oral and written modes appropriate to professional historians (in book reviews, articles, conference-style presentations, peer debate and with academic honesty).

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.

Admission Requirements

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 500 on the verbal portion and/or
- A minimum of 3.5 on the analytical writing portion of the GRE test
- 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.

and submit:

1. A completed admissions application.
2. All required test results.

Most materials can be completed and submitted online.

1. Complete the admissions application online at www.umkc.edu/admissions/.
2. Send copies of your official test results and letters of recommendation to:

Mailing Address

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

You may also wish to send a copy to

Mailing Address

University of Missouri-Kansas City
Department of History
Attn. Andrew Bergerson
5100 Rockhill Road
Kansas City, MO 64110-2499

3. Complete the supplementary application process (Items #3-6 above) online at www.umkc.edu/grasp/

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 (The Graduate Student Barbeque)

The Department of History hosts an annual graduate student barbeque on the third Sunday in September, at which:

- Students are introduced to the program curriculum and administration.
- Graduate students are encouraged to build working relationships with faculty and peers.
- Faculty mentors/advisers are identified for each student.

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, they 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 their Supervisory Committee, by the 15th of October or 15th of March before the completion of their 15th credit hour.
2. A final program of study, and the form listing the final members of their supervisory committee, by the 15th of October or 15th of March before the completion of their 30th credit hour.

Extenuating 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 and online (cas.umkc.edu/history/StudentConduct.htm).

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 adviser:

- 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.

Final Masters Examination for Non-Thesis Students

Candidates for the M.A. degree without thesis will be examined in any three fields. (See List of Fields offered by regular graduate faculty.) 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.
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 15 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.

Fields of Study

AREAS	CHRONOLOGICAL/NATIONAL	TOPICAL/INTERDISCIPLINARY
1. EUROPE	a. Medieval Europe b. Early Modern Europe c. Modern Europe	a. Material Culture & Everyday Life b. History of Science or Medicine c. Area Focus: Medieval Italy; Britain; Modern Germany d. Women, Gender, & Family e. State Formation & National Identity f. Global Interactions
2. MIDDLE EAST	a. Medieval Jewish/Islamic b. Ottoman c. Modern Middle East	a. Material Culture & Everyday Life b. Women, Gender, & Family c. State Formation & National Identity d. Comparative Religions e. Global Interactions
3. LATIN AMERICA	a. Encounter & Colonial b. Post-Independence	a. Identity & Culture b. Post-Independence b. Women, Gender, & Family c. State Formation & National Identity d. Area Focus: Mexico, Central America; Cuba; Puerto Rico, the Southern Cone e. Global Interactions

4. EAST ASIA	<ul style="list-style-type: none"> a. Pre-1600 b. Post-1600 	<ul style="list-style-type: none"> a. Area Focus: Japan; China b. Women, Gender, & Family c. Material Culture and Everyday Life d. History of Science or Medicine e. Comparative Religion f. State Formation & National Identity g. Global Interactions
5. UNITED STATES	<ul style="list-style-type: none"> a. Early America b. Modern America c. 1800 to the Present 	<ul style="list-style-type: none"> a. Identity & Culture b. History of Science or Medicine c. Area Focus: South; West; Midwest d. Women, Gender, & Family e. Material Culture f. Environmental History g. African-American History h. Global Interactions

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

Jessey J. C. Choo Premodern East Asia, China, Japan, Religion, Women, Gender, Everyday Life, Material Culture

Gary L. Ebersole Religious, Japanese, Cultural

James S. Falls Ancient, Medieval English

Miriam Forman-Brunell Women, Gender, Sexuality, United States Social, Everyday Life, Material Culture

Viviana Grieco Precolonial, Colonial, and Modern Latin American

John Herron Environmental, Western United States, 19th and 20th Century United States

Carla L. Klausner Islamic, Ottoman, Modern Middle East, Medieval Europe, Medieval Jewish

Pellom McDaniels III	American Studies, Black Studies, Sports, Masculinity
Dennis Merrill	U.S. Diplomatic, Contemporary United States, Modern Latin America, Globalization, International Relations
Linda Mitchell	Medieval English and Irish, Women
Diane Mutti Burke	19th Century American, Southern United States, Women, Gender, United States Social
Lynda S. Payne	Modern British, Science, Medicine, Gender, The Body, Women, Early Modern European
Louis W. Potts	Early United States, Colonial U. S., Technology, United States Constitutional, Communities & Identities
Shona Kelly Wray	Early Modern European, Medieval European, Renaissance

Adjunct Graduate Faculty

Linna Place	American Studies, Public History
MaryAnn Wynkoop	American Studies

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 students 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.
4. Comply with academic standards of honest and disciplinary standards of evidence.
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. See Appendix for links to formatting guide.)

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.

Honary 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.

Program options:

The Department of History offers two options leading toward the Master of Arts degree (both requiring 36 credits):

- the M.A. in History with thesis: the option for students wishing to keep open the option of continuing their education beyond this degree, and
- the M.A. in History without thesis: the option for students wishing to conclude their History education with this degree.

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 (Hist 5581 and 5582) for a total of 6 credits,
2. A minimum of two graduate level Colloquia (Hist 5585 and/or 5586) for a minimum of 6 credits, and
3. A minimum of one Research Seminar (Hist 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.

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).

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 (Spring 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.

Colloquia

These courses form the knowledge base for the graduate and doctoral program. Divided for purely administrative reasons into “American” and “World”, students are encourage 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.

Research Seminars

Subjects include:

- Communities and Identities
- Gender, Sexuality and the Body
- Globalization and Internationalism
- Material Culture and Everyday Life
- 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.

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 Winter Semester (typically the last week in April or the first week in May). Graduate students should mark this on their calendar ahead of time so that they can 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

Student Learning Outcomes

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: American, European, Latin American or Global, or devise a thematic concentration and have it approved by the chair of the undergraduate studies committee.
2. Two prerequisite courses (six hours) are required in either World History (HISTORY 206 and 208) or Western Civilization (HISTORY 201 and 202). These courses may also fulfill the UMKC general education requirements.
3. Ten courses in history at the upper division, 300-400 level, are required (30 hours)
4. A maximum of five of the ten courses, or 50 percent of upper division coursework, must fall into students' field of concentration.
5. The other half of upper division coursework must be outside the students' field of concentration, including History 301WI, History 498WI, and a non-western course (unless non-western is the area of concentration).
6. All history majors are required to complete HISTORY 301WI Historiography and Method and HISTORY 498WI Senior Capstone as part of their 30-hour upper division requirement. These courses cannot be taken in the same semester and are not offered in the summer. Students must pass the WEPT prior to enrolling in these courses.
7. All majors will take at least one history department course that examines a non-western society. Non-western societies include socio-cultural groups that are not of European origins or that have evolved a distinctive non-European identity. In our department, non-Western courses include those which deal with:
 - o Africa
 - o Asia
 - o Latin America
 - o Non-European Peoples of the Middle East
 - o Indigenous North Americans
8. History majors are strongly urged to pursue competence in a foreign language by continuing their foreign language training beyond the 13-hour general education requirement.
9. 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 while at UMKC. The online portfolio may include any written or visual assignment completed at UMKC. It must include at least the following:
 - o One book review
 - o One historiographical essay
 - o One exam essay
 - o HISTORY 301WI Research Prospectus
 - o HISTORY 498WI Senior Capstone Research Paper

You should strive to make your portfolio materials as impressive as possible. Choose your best exam essay. If you received back a book review or historiographical assignment with suggestions for editing and revision, make the revisions and polish the paper before submitting it to the portfolio. Your HISTORY 301WI Research Prospectus and your HISTORY 498WI Senior Capstone should undergo several drafts before you submit them for grading. Again, make any changes that your professors suggest, and give the papers one last proofread and polishing before adding them to your portfolio. You will be responsible for managing your portfolio electronically.

Concentrations

The History department's course offerings, all of historical knowledge, can be categorized in any number of ways. The fields of concentration reflect an appreciation for the value of studying the past through multiple lenses. Students may choose to concentrate their undergraduate history education in a particular chronological period and region. Or they may choose course offerings that fall into coherent topics that lend themselves to transnational analysis over extended periods of time.

- Chronological/Regional Concentrations:
 - o Antiquity
 - o Medieval and Early Modern
 - o Modern U.S.
 - o Modern Europe
 - o Non-Western
- Topical/Thematic Concentrations:
 - o Class, Race and Gender
 - o Global
 - o Material Culture and Everyday Life
 - o Science, Medicine and the Environment

Courses by Concentration

In reviewing the following list of concentrations and courses, keep in mind that new courses focused on specific topics relevant to professors' research interests are offered every semester, though they are not listed below.

Antiquity

HISTORY 400C Introduction to Prehistoric & Classical Archeology

HISTORY 400CS Clio and the Other Muses: History and Culture of 5th Century Athens

HISTORY 400CY The Ancient World and the Cinema

HISTORY 469 Archeology and Biblical History

HISTORY 470 Ancient Egypt

HISTORY 471 Ancient Greece

HISTORY 472 Ancient Rome

HISTORY 475WI Ancient Israel

Medieval and Early Modern

HISTORY 302 America, 1000-1763: The Formative Era

HISTORY 303 America, 1763-1783: The Revolutionary Heritage

HISTORY 394 African American History to 1877

HISTORY 400CF Courts and Culture in the High Middle Ages

HISTORY 411A Medieval Civilization I

HISTORY 411B Medieval Civilization II

HISTORY 412A Women and Family in Medieval and Early Modern Europe

HISTORY 412B The Black Death and Late Medieval Society

HISTORY 413 Renaissance

HISTORY 414 Reformation

HISTORY 415B 17th and 18th Century Europe

HISTORY 416R The French Revolution and Napoleon

HISTORY 426R The Scientific Revolution, 1500-1700

HISTORY 431R Medieval England, 1066-1485

HISTORY 432R Tudor England, 1485-1603

HISTORY 433R Britain, 1603-1832

HISTORY 476 Medieval Jewish History

Modern United States

HISTORY 300DM Dollars, Culture and America's Hemispheric Empire

HISTORY 00JH The West in Film: Fact and Fiction

HISTORY 300MBA Missouri and Kansas in the Era of the Border Wars

HISTORY 300MBB Social History and Material Culture of 19th Century America

HISTORY 300WY The Sixties

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 360R Constitutional History
- HISTORY 361 American Foreign Relations
- HISTORY 366RR American Labor History
- HISTORY 395 African American History Since 1877
- HISTORY 400CP Silver Screen and the American Dream
- HISTORY 400Z Kansas City Labor History

Modern Europe

- HISTORY 400CJ Nordic History and Culture, 1750-Present
- HISTORY 400CI Culture, Kultur, Civilization: Identity Formation in Middle Class
- HISTORY 417R Nations and Empires: 19th Century Europe
- HISTORY 418R The Age of Extremes: 20th Century Europe
- HISTORY 419R Contemporary Europe, 1930-2000
- HISTORY 427R The Darwinian Revolution, 1650-1900
- HISTORY 430R The Ordeal of Total War, 1939-1945
- HISTORY 434R Britain, 1832-Present
- HISTORY 436AWI Imperial Germany
- HISTORY 436BWI Weimar Germany
- HISTORY 436CWI Nazi Germany
- HISTORY 436DWI Cold War Germany
- HISTORY 477 Modern Jewish History
- HISTORY 478 The Holocaust and the State of Israel

Non-Western

- HISTORY 300JH Indians of the Americas
- HISTORY 400CR Latin American Crises and Opportunities
- HISTORY 400F Religion and Colonialism in Latin America
- HISTORY 400VGA Colonial Latin America
- HISTORY 400VGB Modern Latin America
- HISTORY 400VGC Women in Latin America
- HISTORY 400VGD Environmental History of Latin America
- HISTORY 424A Colonial and Postcolonial South Asia
- HISTORY 424R Twentieth Century Asia
- HISTORY 444R Islam and 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

Class, Race and Gender

- HISTORY 300FBA History of Sexuality
- HISTORY 300J History of Sport
- HISTORY 300JH Indians of the Americas
- HISTORY 300K Masculinity in History
- HISTORY 300L Labor and Leisure
- HISTORY 300MBB Social History and Material Culture of 19th Century America
- HISTORY 300RH History of Fatherhood

HISTORY 300SS Sporting Cultures: African-Americans in Pursuit of the American Dream
HISTORY 353 Immigrants and Immigration
HISTORY 354R Women in Modern America
HISTORY 366RR American Labor History
HISTORY 368 Girlhood and Boyhood in America
HISTORY 369 Women and Work in Early America
HISTORY 394 African American History Before 1877
HISTORY 395 African American History Since 1877

HISTORY 400 Sport & Film
HISTORY 400B Women in Latin America
HISTORY 400K History of Motherhood
HISTORY 00Z Kansas City Labor History
HISTORY 401A Religion in America
HISTORY 412A Women and Family in Medieval and
Early Modern Europe
HISTORY 428A History of the Body
HISTORY 428B Women and Medicine: Patients and
Practitioners from Antiquity to Present

Global

HISTORY 300DM Dollars, Culture and America's
Hemispheric Empire
HISTORY 300JH Indians of the Americas
HISTORY 302 America, 1000-1763: The Formative Era
HISTORY 361 American Foreign Relations
HISTORY 300CN The World Made Modern: World War I
& Popular Film
HISTORY 400CR Latin American Crises and Opportunities
HISTORY 400F Religion and Colonialism in Latin America
HISTORY 400VGA Colonial Latin America
HISTORY 400VGB Modern Latin America
HISTORY 424A Colonial and Postcolonial South Asia
HISTORY 424R Twentieth Century Asia
HISTORY 430R The Ordeal of Total War, 1939-1945
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 and Ritual
HISTORY 477 Modern Jewish History
HISTORY 478 The Holocaust and the State of Israel

Material Culture & Everyday Life

HISTORY 300J History of Sport
HISTORY 300K Masculinity in History
HISTORY 300L Labor and Leisure
HISTORY 300MBB Social History and Material Culture of 19th
Century America
HISTORY 300RH History of Fatherhood

HISTORY 300SS Sporting Cultures: African-Americans in Pursuit of the American Dream
HISTORY 368 Girlhood and Boyhood in America
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 400 Sport & Film

HISTORY 400C Introduction to Prehistoric & Classical Archeology
HISTORY 400CC History, Culture and Nature in Sweden
HISTORY 400K History of Motherhood
HISTORY 401A Religion in America
HISTORY 428A History of the Body
HISTORY 428B Women and Medicine: Patients and
Practitioners from Antiquity to Present
HISTORY 436A WI Imperial Germany
HISTORY 436B WI Weimar Germany
HISTORY 436C WI Nazi Germany
HISTORY 436D WI Cold War Germany
HISTORY 469 Archeology and Biblical History
HISTORY 497 Project in Swedish History and Culture

Science, Medicine and the Environment

HISTORY 300JH The West in Film: Fact and Fiction
HISTORY 357 The American West
HISTORY 365A American Environmental History
HISTORY 400CC History, Nature and Culture in Sweden
HISTORY 400VGD Environmental History of Latin America
HISTORY 412B The Black Death and Late Medieval Society
HISTORY 426R The Scientific Revolution, 1500-1700
HISTORY 427R The Darwinian Revolution, 1650-1900
HISTORY 428A History of the Body
HISTORY 428B Women and Medicine: Patients and
Practitioners from Antiquity to Present
HISTORY 473 History of Astronomy
HISTORY 497 Project in Swedish History and Culture

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

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.
Assistant Professor of History
herronj@umkc.edu

- Program Description

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.

Traditional and nontraditional undergraduates will develop their academic and leadership skills within the context of a broad, interdisciplinary education, which will ultimately prepare them for graduate studies and professional careers.

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.

In Honors, students enjoy small classes taught by some of the best professors, guaranteeing a stimulating intellectual challenge.

Honors Credit

In order to accomplish these goals, all honors students have the opportunity to enroll in honors courses and a weekly interdisciplinary colloquium taught by some of the best faculty on campus. Colloquium allows honors students to meet informally on a regular basis to discuss and debate important issues. The Honors Colloquium introduces students to a different theme each semester, selected based on faculty and student research interests. Here all the honors students, freshmen and seniors alike, meet with the UMKC faculty and distinguished guest lecturers on subjects ranging from the environment to religion, from the fine arts to astronomy.

Honors credit may also be received from:

- Specially designed honors courses
- Independent study
- Directed readings
- 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. Those who complete an honors thesis in addition to the basic honors requirements are designated as Honors Scholars.

Program Initiatives

On campus 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 for courses during registration.
- Community service and service-learning programs designed specifically for honors students.
- 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, see www.umkc.edu/international/Fellowships_Initial.htm).

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. 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:

- 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.

The Honors Program application may be found at the Honors website <http://cas.umkc.edu/honors>.

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 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 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.

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, but 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](#) section in the catalog.

Interdisciplinary Minors and Certificate Programs

Interdisciplinary Minors and Certificate Programs

Undergraduate Interdisciplinary Minors and Certificates

Students interested in pursuing an interdisciplinary-type major should consult the Bachelor of Liberal Arts major in the Arts and Sciences section of this catalog.

Those students who plan to declare a minor are encouraged to consider the following interdisciplinary minors, as well as those minors listed under separate departments and programs in the Arts and Sciences section of this catalog. In all cases, students are to consult with a faculty coordinator to ensure that their course of study meets the requirements for a minor within the bachelor's degree they are earning.

In some of the fields listed below, Certificate Programs are available. The specific program of study should be planned under advisement of a faculty coordinator.

- Black Studies Minor
- Family Studies Minor
- Gerontology Minor and Certificate Program
- Healing and Humanities Minor
- Hospitality Studies Minor
- Judaic Studies Minor

Graduate Interdisciplinary Certificates

- Graduate Certificate in Gerontology

Graduate Certificate in Gerontology

A graduate gerontology certificate program is offered through the College of Arts and Sciences Continuing Education Division and the Center on Aging Studies. 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, dental hygiene, pharmacy, law, social work and education have completed the certificate. Students enrolled in a degree program must declare their intention to pursue the certificate to their adviser and to the gerontology adviser in the Center on Aging Studies. As the number and proportion of older adults in the population increases, career opportunities in a variety of arenas are on the rise.

Required Courses

Eighteen credit hours are required to complete the minor or certificate:

Required CoursesHours

A&S <u>5500</u>	Interdisciplinary Colloquium on Aging	3
Sociology Core (Choose one)		
SOCIOL 410R	Aging in Contemporary Society	3
SOCSC 411P	Aging in American Society: Past and Present	4
SOCIOL 5554	Sociology of the Aging Woman	3
SOCIOL 5560	Sociology of Death & Dying	3

SOCIOL 5580 Special Topics (Approved 3-credit special topics course can meet the Sociology requirement.) 3

Psychology Core (Choose one)

PSYCH 5540 The Psychology of Aging 3
 PSYCH 5543 Adult Development and Aging 3

Health/Biology Core (Requires three credit hours)

NAT-SCI 430PC Biological & Ethical Issues in Aging 3
 NURSE 5530A The Experience of Health in Aging: Physiological 1
 NURSE 5530B The Experience of Health in Aging: Relationship 1
 NURSE 5530C The Experience of Health in Aging: Community 1

Field Practicum

A&S 5592 Field Practicum in Aging 3

Elective Courses

Three elective credit hours can be taken to complete the program. Students should contact the gerontology adviser or the [Center on Aging Studies Web site](#) for a current list of courses available for elective credit. Students wishing to enroll in the certificate program must meet all requirements for admission to UMKC and to their intended major academic unit (if applicable). They must declare their intention to pursue the certificate to their adviser and to the gerontology adviser in the Center on Aging Studies. For information on enrollment, contact the gerontology program adviser at the Center on Aging Studies.

Black Studies Minor

Faculty Coordinator:

Mathew Forstater , Associate Professor of Economics and Black Studies and Interim Coordinator, Black Studies (816) 235-5862

Black Studies is inherently interdisciplinary, and students who choose this minor will acquire a broad-based knowledge and understanding of the issues and research methodologies that have shaped scholarship in African-American studies. They will have the chance to learn specifics about the history, literature, artistic expression and cultural contexts of Africans and African Americans here in the United States, as well as in other parts of the world. They should also have an enhanced perspective of their major discipline after completing the minor. The addition of a minor is especially useful for students outside history or English studies who want to study African-American studies, but do not have that opportunity in their specific major.

Students earning a minor in Black Studies take at least 18 credit hours of coursework, a minimum of nine hours at the 300- or 400-level, and a minimum of nine hours must be earned at UMKC. The program of study is planned with a faculty coordinator.

Required Courses	Hours
A&S 334/5502 Introduction to African-American Studies	3

One of the following:

ENGLISH 331 African-American Literature Survey I	3
ENGLISH 333 African-American Literatures Survey II	3

One of the following:

HISTORY 394 African-American History Before 1877	3
HISTORY 395 African-American History Since 1877	3

Electives

ART 315/497H Art of African, Oceanic and New World Cultures	3
ART 300CD/497H The African Diaspora in the Arts and Culture	3

ART 300CF/497H	African/African-American	
ANTHRO 300CF/ SOCIOL 300CF	Women and Creativity	3
ART 442	Art of Sub-Saharan Africa	3
ART 497H/5571	African Influences on New World Cultures	3
ECON 314	Race, Class and Gender: Theory, History and Policy	3
ECON 495D	Area Studies in Economics-Africa	3
ENGLISH 410	Black Women Writers	3
SOCIOL 310R	Families and the Life Course	3
SOCIOL 313R	Sociology of Women	3
SOCIOL 322	Race and Ethnic Relations	3
Additional courses with significant Black Studies content with approval of faculty coordinator		3

Family Studies Minor

Haag Hall , Room 208
5100 Rockhill Road
(816) 235-2529

Program Director:

Deborah B. Smith , Associate Professor, Department of Sociology, (816) 235-2529

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 and to the Family Studies Program Director. 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:

- SOC [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 SOC 310R and PSYCH 453P.)
- SOC [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 contact the Family Studies Program Director.

Healing and Humanities Minor

Healing and Humanities Minor

Scofield Hall, Room 9
711 E. 51st Street

Faculty Coordinator/Program Adviser:

Cary Lyon, Director of Pre-Health Programs, (816) 235-5874

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:

- American Studies 350 Medical Humanities and American Studies
- Anthropology 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)
- Arts and Sciences 100 (First Year Seminar, Pre-Health sections only)
- Arts and Sciences 240 Analysis of Medical Terminology
- Arts and Sciences 304CM Body Images in Medicine and the Arts (Interdisciplinary Cluster Course)
- Arts and Sciences 365P Introduction of Substance Abuse Counseling: Theory and Practice
- Arts and Sciences 420 Literature: A Healing Art
- Arts and Sciences 492 Field Practicum in Aging
- Chemistry 206 Human Nutrition
- Communication Studies 140 Principles of Communication
- Communications Studies 344 Communication in Organizational Settings
- Communication Studies 377 Interpersonal Communication
- Communications Studies 431 Colloquium in Interpersonal Dynamics: Health Communication
- Communications Studies 444WI Intercultural Communications
- Communication Studies 400CT Healing and Cultural Diversity (Interdisciplinary Cluster Course)
- Criminal Justice and Criminology 317 Policies of Drug Use and Control
- Economics 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
- Humanities 408P Images of Aging in Literature
- Humanities 490P Perceptions and Images of Disabilities in Literature and Film
- Interdisciplinary Studies 350P Interdisciplinary Perspectives on Aging: Readings and Film
- Interdisciplinary Studies 401P The Natural Life Cycle
- Interdisciplinary Studies 402P Literature and Life Sciences
- Interdisciplinary Studies 403P Stages of Growth
- Interdisciplinary Studies 420P Brain and Behavior
- Medicine 418R Medicine, Literature and Law (3 credit hours applicable to minor)
- Medicine 494R Medical Humanities Selective (3 credit hours applicable to minor)
- Natural Science 430PC Biological and Ethical Issues in Aging (Interdisciplinary Cluster Course)
- Philosophy 300CK Controversy and Choice in Life and Sciences
- Philosophy 315 Logic and Methodology in the Health and Social Sciences
- Philosophy 321 Introductory Ethics
- Philosophy 334 Philosophy of Science
- Philosophy 338 Philosophy of Biology
- Philosophy 360 Current Issues in Bioethics

- Philosophy 400CO Issues in Death and Dying (Interdisciplinary Cluster Course)
- Philosophy 401PC Biological and Ethical Issues in Aging (Interdisciplinary Cluster Course)
- Psychology 215 Meditation, Self-Hypnosis, and Biofeedback
- Psychology 300CT Healing and Cultural Diversity (Interdisciplinary Cluster Course)
- Psychology 320 Ethnic and Minority Perspectives in Psychology
- Psychology 328 Psychology of Human Sexual Behavior
- Psychology 331 An Introduction to Health Psychology
- Psychology 406P Introduction to Developmental Disabilities
- Psychology 410 Abnormal Language
- Psychology 418 Biopsychology I
- Psychology 419 Biopsychology II
- Psychology 430 Introduction to Community Psychology and Community Mental Health
- Psychology 433 Abnormal Psychology
- Psychology 440 The Psychology of Aging
- Psychology 441 Adult Development and Aging
- Religious Studies 494RS Death in History of Religion
- Religious Studies 496RS The Body in the History of Religion
- Social Science 411P Aging in America: Past and Present
- Sociology 211 Social and Psychological Development through the Life Cycle
- Sociology 303CA Perspectives in Science and Healing (Interdisciplinary Cluster Course)
- Sociology 303CO Issues in Death and Dying (Interdisciplinary Cluster Course)
- Sociology 303CT Healing and Cultural Diversity (Interdisciplinary Cluster Course)
- Sociology 316 Sociology of Death and Dying
- Sociology 317 Policies of Drug Use and Control
- Sociology 328 Anthropology of the Body
- Sociology 410R Aging in Contemporary Society
- Sociology 416 Aging and Developmental Disabilities
- Sociology 417 Practicum in Aging and Developmental Disabilities
- Sociology 439 Social Meanings of Illness, Suffering and Healing
- Sociology 440R Sociology of Medicine
- Spanish 216 Spanish for the Health Sciences
- Theatre 300CH Healing and the Arts (Interdisciplinary Cluster Course)

Gerontology Minor and Certificate Programs

5215 Rockhill Road
 (816) 235-2186
<http://cas.umkc.edu/cas>

Program Director:

Linda M. Breytspraak , Director, Center on Aging Studies, (816) 235-1744

Program Adviser:

Lois Fitzpatrick , Center on Aging Studies, (816) 235-2182

An interdisciplinary gerontology minor and a gerontology certificate program are offered through The College of Arts and Sciences Continuing Education Division and the Center on Aging Studies. The minor is available to any undergraduate enrolled in a bachelor's degree program. The certificate can be completed either in conjunction with a degree program or as a free-standing credential. Students in such diverse fields as sociology, psychology, nursing, dental hygiene, pharmacy and education have completed the certificate. Students must declare their intention to pursue the certificate or minor to their adviser and to the gerontology adviser in the Center on Aging Studies. As the number and proportion of older adults in the population increases, career opportunities in a variety of arenas are on the rise.

Eighteen credit hours are required to complete the minor or certificate.

Required Courses

Sociology Core (choose one)Hours		
SOCIOL 410R	Aging in Contemporary Society	3
SOCIOL 411P	Aging in American Society: Past and Present	4
Psychology Core (choose one)		
PSYCH 440	The Psychology of Aging	3

PSYCH 441	Adult Development and Aging	3
Health/Biology Core (3 credit hours)		
NURSE 430A	The Experience of Health	
NURSE 430B	in Aging (All 3 are	
NURSE 430C	(required to satisfy core.)	3
NURSE 430PC	Biological and Ethical	
	Issues in Aging	3
Field Practicum		
A&S 492	Field Practicum in Aging	3
Elective Courses		
Electives *		6

* Six elective credit hours can be taken to complete the program. Students should contact the gerontology adviser or <http://cas.umkc.edu/cas/undergrad.htm> for a current list of courses available for elective credit.

Judaic Studies Minor and Concentration

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 475 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.

Minor in Hospitality Studies

The Minor in Hospitality Studies is not currently available.

The Hospitality Studies minor may be completed in conjunction with any undergraduate degree. Students pursuing the hospitality studies minor must take a minimum of 18 credit hours of approved coursework. A minimum of 9 credit hours must be taken at UMKC, and a minimum of 9 credit hours must be at the 300- or 400-level. The courses required for the minor are:

- ECON323P: Administration in the Service Industry (4 credit hours)
- SOC-SCI375P: Contemporary Issues in the Service Industry (4 credit hours)
- ECON423P: Legal and Social Issues of the Hospitality Industry (4 credit hours)
- SOC-SCI465P: Human Resources in the Service Industry (4 credit hours)
- Electives (to be approved by the Faculty Coordinator) (2 credit hours)

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. Additional 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:

- Architectural Studies (ENVD).
- 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 Humanities 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](#), [317](#), [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:

1. 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](#).
2. 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 [105](#), [200](#), [202](#), [210](#), [300](#), [309](#), [311](#), [329](#), [332](#), [333](#), [340](#), [341](#), [342](#), [350](#), [351](#), [352](#), [355](#), [398](#), [403](#), [405](#), [410](#), [415](#), [435](#), [437](#), [460](#), [489](#), or [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

Liberal Studies Program

Note: The Master of Liberal Studies program is not accepting any more applications for the 2009-2010 academic year.

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mals@umkc.edu

Contact Person:

Prof. Tom Poe

- 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

Program Description

The master of arts in liberal studies (MALS) degree program enables mature individuals to pursue part-time, interdisciplinary studies at the graduate level without specializing in any one subject area. Offered at night and during the weekend, courses provide participants the opportunity to extend the best experiences of baccalaureate liberal education to the graduate level. Students admitted to the program will identify their own interests within the wide array of graduate courses in The College of Arts and Sciences and will plan individualized programs of study with the cooperation of the director of the program.

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. UMKC is fortunate to have the additional cultural resources of a wide array of museums, libraries, archives, and special exhibits within the Kansas City area. Many of the courses available for the M.A. in liberal studies curriculum are designed to take specific advantage of these community resources.

The 21st Century: Complex Communities, Cultures and Critical Choices

The broader unifying experience of courses, offered M.A. in liberal studies participants, is the opportunity to explore some of the basic issues affecting life in modern urban America. Students explore problems such as the environment, international conflict and social problems of the modern city, topics which are not single topics of study, but intricate, complex issues. The interdisciplinary nature of the M.A. in liberal studies coursework provides the mechanism to look at these problems, and others, with a deeper understanding of exactly how contemporary problems are interrelated with one another and with past history.

Each semester, the critical choices theme is reflected through the offering of at least one of the following courses:

- A&S 5510 Methods of Inquiry: An Interdisciplinary History of the 1930s
- A&S 5511 Methods of Inquiry: An Interdisciplinary History of the 1940s
- A&S 5512 Methods of Inquiry: An Interdisciplinary History of the 1950s
- A&S 5513 Methods of Inquiry: An Interdisciplinary History of the 1960s
- A&S 5514 Critical Choices: Methods of Inquiry in Science

Each of these courses is designed to explore, in an interdisciplinary manner, interrelationships among contemporary issues and past history and influences upon contemporary decision making.

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.

Master of Liberal Studies

Admission

Note: The Master of Liberal Studies program is not accepting any more applications for the 2009-2010 academic year.

Individuals admitted to the program must have a baccalaureate or equivalent degree, and mature academic interests. A minimum undergraduate 3.0 GPA is desirable but can be offset by professional and career accomplishments outside academe. Individuals applying for admission to the program also are required to have an in-depth interview with the program director. Approval is required before any student is officially accepted into the program. The director also functions as principal graduate adviser in this program and approves each participant's individual plan of study.

Program Requirements

The degree is a 36 credit hour program. Generally, each participant's plan of study will consist of three parts; however, exceptions in the plan of study may be approved by the director to accommodate an individual's specific interests or special education or career backgrounds. The three parts of the matriculation plan include:

1. Introductory seminar, which must be completed before any other coursework.
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. In advance of each semester, a list will be published of departmental courses open to M.A. in liberal studies participants and offered at night and during the weekends. Program participants are also free to enroll in any other course offered in The College of Arts and Sciences, as long as they meet the entry requirements of the instructor and the department. 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 and spring semester, this required seminar meets four weekends throughout the semester. Team-taught by faculty from the humanities and the social and natural sciences, the class also includes guest presentations by other faculty in various fields and research librarians. 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 emphasis within the program.

Sessions introduce participants to the use of the Miller Nichols Library on the main UMKC campus, as well as other area libraries, such as the Linda Hall Library of Science and Technology, the Truman Library and the Nelson-Atkins Museum of Art. 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)

A benefit of the MALS program is that it does not conform to any single fixed curriculum. Individuals develop their own plans of study in consultation with the director of the program or a graduate adviser designated by the program director. No more than three courses (9 hours) may be taken within any one department without permission of the department and the director of the program. 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 free to identify their own areas of study, or to choose from among the following areas of focus:

- Black Studies
- Communication and Film Studies
- Executive Leadership
- Hospitality Studies

For students who wish to write a thesis, up to three hours may be applied toward the completion of the degree. Students are encouraged to exercise this option concurrently with the capstone seminar or soon after its completion.

A&S 5520: Critical Choices: Final Research Project and Capstone Seminar (3 hours)

This course brings together MALS participants in the last semester of their work. Each participant in the seminar defines a final project and spends a semester developing it and presenting the findings to the group at the conclusion of the course. Each project is intended to be thought-provoking, and to cut across disciplinary lines in the examination of a question relevant to the area of emphasis that the student has followed throughout the program. In addition, guest faculty representing the humanities, the social sciences, and the natural sciences help students understand how contemporary issues and problems are interrelated with one another and with past history.

Mathematics and Statistics

Department of Mathematics and Statistics

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Department Chair:

Jie Chen

Emeriti Faculty:

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Professors:

Jie Chen, Kamel Rekab

Associate Professors:

Richard Delaware, Noah H. Rhee, Xin Yan, Yong Zeng

Assistant Professors:

Eric J. Hall, Liana Sega, Hristo D. Voulou

Instructor:

Rebecca S. Roberts

- 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

Student Learning Outcomes

1. Students graduating with an M.A. or M.S. degree will, at a higher level than required for the baccalaureate degree:
 - o Have a broad understanding of several branches of mathematics and how they are related.
 - o Be able to read and/or listen to documents and discussions having mathematical content, with an appropriate level of understanding, exhibit a high level of mathematical literacy.
 - o Be able to read, write, and understand mathematical proofs, and construct mathematical proofs as appropriate.
 - o 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.
 - o Be able to clearly articulate mathematical information accurately and effectively, using a form, structure and style that suit the purpose (including written and face-to-face presentation).
 - o 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.
 - o Be able to independently acquire further mathematical knowledge without guidance.
2. Students graduating with an M.A. or M.S. will be prepared for entry into professional schools, graduate programs, or the job market.

Degree Requirements

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 for the master's degree, and at least 18 credit hours of those must be at the 5500 level in the department. Courses numbered below 400 do not carry graduate credit for mathematics graduate students. Courses previously taken for undergraduate credit may not be credited toward a graduate degree. Independent Study courses (490 or 5590) in the department are not counted toward the degree unless approved by department graduate advisors. Prior to completing 15 hours of study, students are required to submit a Master Plan of Study to the department graduate advisor. Master's degree students are also required to attend the department Graduate Seminar at least 5 times each semester, unless other arrangements are made with a department graduate advisor.

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. For more details about the M.S. degree requirements, please refer to the departmental Web site (<http://cas.umkc.edu/math>).

Bachelor of Arts/Bachelor of Science: Mathematics

Student Learning Outcomes

Bachelor of Arts or Bachelor of Science in Mathematics

1. Students graduating with a B.A. or B.S. degree in Mathematics and Statistics will:

- 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, exhibit a high level of mathematical literacy.
- 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, while analyzing and evaluating problems (both theoretical and practical) and plan strategies for their solution.
- Be able to clearly articulate mathematical information accurately and effectively, using a form, structure and style that suit the purpose (including written and face-to-face presentation).
- 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.
- Be able to independently acquire further mathematical knowledge without guidance.

2. Students graduating with a baccalaureate degree in Mathematics and Statistics will be prepared for entry into professional schools, graduate programs, or the job market.

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.

Degree requirements are MATH 210, 220 and 250, and a minimum of 21 hours of coursework in mathematics or statistics at the 300-level or above, including MATH 300, the capstone course MATH 402, and either MATH 410 or MATH 420. To obtain a bachelor's degree in Mathematics, at least four of the courses at the 300 level or above must be completed in the Department of Mathematics and Statistics at UMKC.

The bachelor of science degree in mathematics requires a minimum of 60 credit hours of combined mathematics and science coursework.

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.

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 Calculus I and II, and three courses at the 300-level or above in the department.

Military Science

Military Science

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armyrotc@umkc.edu

Mailing Address

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Department of Military Science
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Assistant Professors:

Lt. Col. (USAR) Larry G. Chipman; Lt. Col. (USAR) Mark W. Lenneville; Lt. Col. (USAR) Gerald R. Sewell; Lt. Col. (USAR) Kevin Winn; Master Sgt. (USAR) William K. Quinley; Sgt. 1st Class (USAR) Pamela Morgan

- 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

PACE/Program for Adult College Education

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Director:

Reginald Bassa 

- Program Description
- PACE Courses
 - American Studies (AMST)
 - Art (ART)
 - Arts and Sciences
 - Chemistry (CHEM)
 - Communication and Information Technology (CIT)
 - Communication Studies (COMS)
 - Criminal Justice and Criminology (CJC)
 - Economics (ECON)
 - English (ENGL)
 - History (HIST)
 - Humanities (HUMN)
 - Integrated Studies (INTG)
 - Interdisciplinary Studies (INTDIS)
 - Natural Science (NATSC)
 - Philosophy (PHIL)
 - Physical Science (PHYSC)
 - Political Science (POLSC)
 - Psychology (PSYCH)
 - Social Science (SOCSC)
 - 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:

- American Studies
- 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

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Mailing Address

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Department of Philosophy

CH 222

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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.

Associate Professor:

Clancy Martin, James Sheppard (architecture, urban planning and design), Wayne Vaught (School of Medicine)

Assistant Professor:

Dana Tulodziecki

Undergraduate Adviser:

James Sheppard

- 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
- Undergraduate Philosophy (PHILOS) 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. Focused minors are available for students who major in the social and health sciences, the humanities, computer science and the performing and fine arts.

Career Implications of the Degree

The bachelor's degree in philosophy is a prerequisite for graduate work in philosophy and is also appropriate preparation for graduate work in the other humanities disciplines, as well as the social sciences. Studying philosophy as an undergraduate can also prepare one for the study of law and for any other profession requiring flexibility of thought and the ability to read and write with care.

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 Circle is a student organization sponsoring various scholarly and social activities in the department. These activities are open to anyone interested in philosophy.

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

Student Learning Outcomes

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.

Students who intend to do graduate work in philosophy are urged to take PHILOS 423: Symbolic Logic, and to develop reading knowledge of a foreign language. In most cases, it would be best to know German or French.

Minor in Philosophy

Requirements for the Minor

Philosophy minors are required to complete a total of 18 credit hours, including PHILOS 210 or 222 (three hours), PHILOS 310WI and 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.

Physics

Department of Physics

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Kansas City, MO 64110-2499

Department Chair:

Michael B. Kruger 

Undergraduate Adviser:

Fred Leibsle

Graduate Adviser:

Da-Ming Zhu

Curators' Professor:

Wai-Yim Ching

Professors:

Y.C. Jerry Jean (chemistry and physics), Michael B. Kruger (chair), Richard D. Murphy, Da-Ming Zhu

Associate Professors:

Fred M. Leibsle, Elizabeth P. Stoddard, Jerzy M. Wrobel

Assistant Professors:

Anthony N. Caruso, Daniel H. McIntosh, Donald J. Priour Jr.

Lecturers:

Robert C. Riggs

Professors Emeriti:

Paul J. Bryant, James M. Phillips, 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

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Department Description

The Department of Physics 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. The Department of Physics also offers a master of science degree, and participates in UMKC's Interdisciplinary Ph.D. program.

To learn more about the Department of Physics, please click [here](#).

Undergraduate Admissions

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 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 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.

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 9

Total 32

Sophomore Year

MATH 250 4

PHYSICS 250 5

PHYSICS 330 3

PHYSICS 350 3

PHYSICS 385L 3

Gen. Ed. Req. / Electives 13

Total 31

Junior Year

PHYSICS 310 and 311 6

PHYSICS 395L(fall of even years) or

PHYSICS 420 (fall of odd years) 3

PHYSICS 450 (fall of even years) or

PHYSICS 410 (fall of odd years) 3

PHYSICS 425LW (winter of even years) or

PHYSICS 413 (winter of odd years) 3

PHYSICS 445L (winter of even years) or

PHYSICS 475L (winter of odd years) 3

Gen. Ed. Req. / Electives 14

Total 32

Senior Year

PHYSICS 460 and 461 6

PHYSICS 480 3

PHYSICS 395L(fall of even years) or

PHYSICS 420 (fall of odd years) 3

PHYSICS 450 (fall of even years) or

PHYSICS 410 (fall of odd years) 3

PHYSICS 425LW (winter of even years) or

PHYSICS 413 (winter of odd years) 3

PHYSICS 445L (winter of even years) or

PHYSICS 475L (winter of odd years) 3

Gen. Ed. Req. / Electives 11

Total 32

The above plan of study is given only as a model. Individual programs may vary as circumstances require.

Graduate Programs

The Department of Physics 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

Regulations

The Department of Physics 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

Student Learning Outcomes

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 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 in the fall.

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 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 final written examination covering all areas of basic 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 413: Computational Physics
 PHYSICS 420: Optics
 PHYSICS 425LW: Optics Laboratory
 PHYSICS 445 L: Modern Physics Laboratory
 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
 PHYSICS 475 L: Nuclear Physics Laboratories
 PHYSICS 480: Electron Microscopy
 PHYSICS 481: Electron Microscopy II
 PHYSICS 482: X-Ray Analysis: Theory And Practice

*Satisfactory is determined by the students committee

**Prof. Da-Ming Zhu, Flarsheim 250K, 816-235-5326, zhud@umkc.edu

Bachelor of Science: Physics

Student Learning Outcomes

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 thinkingskills in order to become problem solvers.
- Be able to clearly articulate scientific information, bothorally 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.

Program Requirements

The bachelor of science degree is recommended for students interested in seeking employment in industrial, government 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.

Mathematics	Hours
MATH 210	4
MATH 220	4
MATH 250	4
Total	12

Chemistry	Hours
CHEM 211 and 211L	5
CHEM 212R and 212LR	5
Total	10

Physics	Hours
PHYSICS 240 and 250	10
PHYSICS 310 and 311	6

PHYSICS 330	3
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PHYSICS 350	3
PHYSICS 385L and 395L	6
PHYSICS 410	3
PHYSICS 420	3
PHYSICS 460 and 461	6
PHYSICS 472	3

Any two of the following laboratories:

PHYSICS 425LW	3
PHYSICS 445 LW	3
PHYSICS 475 LW	3
PHYSICS 480 W	3
Total	49

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	9
Total	32

Sophomore Year

MATH 250	4
PHYSICS 250	5
PHYSICS 330	3
PHYSICS 350	3
PHYSICS 385L	3
Gen. Ed. Req. / Electives	13
Total	31

Junior Year

PHYSICS 310 and 311	6
PHYSICS 395L(fall of even years) or PHYSICS 420 (fall of odd years)	3
PHYSICS 450 (fall of even years) or PHYSICS 410 (fall of odd years)	3
PHYSICS 425LW (winter of even years) or PHYSICS 413 (winter of odd years)	3
PHYSICS 445L (winter of even years) or PHYSICS 475L (winter of odd years)	3
Gen. Ed. Req. / Electives	14
Total	32

Senior Year

PHYSICS 460 and 461	6
PHYSICS 480	3
PHYSICS 395L(fall of even years) or PHYSICS 420 (fall of odd years)	3
PHYSICS 450 (fall of even years) or PHYSICS 410 (fall of odd years)	3
PHYSICS 425LW (winter of even years) or PHYSICS 413 (winter of odd years)	3
PHYSICS 445L (winter of even years) or PHYSICS 475L (winter of odd years)	3
Gen. Ed. Req. / Electives	11
Total	32

The above plan of study is given only as a model. Individual programs may vary as circumstances require.

B.A. Curriculum Requirements

Student Learning Outcomes

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.

Program Requirements

The bachelor 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 49 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, 250), 10 credit hours; in special cases, General Physics (PHYSICS 210, 220), 8 credit hours;
2. Advanced Physics Laboratory (PHYSICS 385L, 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.

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 total of 20 credit hours in physics, including either Physics 210 and 220 (8 credit hours) or Physics 240 and 250 (10 credit hours), with the remaining hours from any 300- or 400-level physics courses.

3/2 Physics/Engineering

PHYSICOMP-SCI/Engineering Course of Study

Course of study for the five year combined PHYSICOMP-SCI/EE Degree

Year I

Fall Semester

MATH 210-Calculus I

COMM-ST 110-Fund. Effective Speaking and Listening

CHEM 211/211L-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 212/212L-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 445L or 475L-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

CE 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 460,461 (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. Please call (816) 235-1604 for more information.

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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pol-sc@umkc.edu
<http://cas.umkc.edu/polisci>

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Harris G. Mirkin 

Emeriti Faculty:

Robert E. Gamer, Ben L. Martin, Dale A. Neuman, G. Ross Stephens

Curators' Professor:

Max J. Skidmore

Curators' Distinguished Teaching Professor

David N. Atkinson (pre-law adviser)

Associate Professors:

Robert K. Evanson (principal master's adviser), Harris G. Mirkin (chair)

Assistant Professors:

Mona Lyne, Elizabeth Miller

Visiting and Adjunct Professors:

Robert Collins, Hootin Shambayati, Robert Worley

Lecturers:

David Brichoux, David Sprick, Daniel Strout

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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 special attention devoted to philosophies, institutions, processes and behavioral aspects of 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.

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 whose interest and abilities might lead them into 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

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**.

Department Activities

Advising

The department chair serves as the principal undergraduate adviser and does final degree checks. However, students may choose any member of the department as their regular adviser. A faculty member other than the chair serves as principal graduate adviser.

Constitutions of the United States and Missouri

Students may fulfill the state requirement for the study of state and national constitutions by taking [Political Science 210](#), American Government. This course also counts toward the social science-area requirement within The College of Arts and Sciences curriculum.

Internships

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.

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: [497](#) and [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.

Honorary Society

A chapter of Pi Sigma Alpha, the national political science honorary society, has been active at UMKC since 1975. Each year Pi Sigma Alpha seeks to recognize the best students of politics in order to -- according to its national constitution -- "stimulate productive scholarship and intelligent interest in the subject of government."

Special Scholarships

Each year outstanding graduating 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. Full guidelines are still being developed.

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.

Master of Arts: Political Science

The master of arts degree in political science offers intensive study across the range of major subfields in politics and government. Because of the breadth of its focus, the M.A. is designed as a terminal degree for most students.

Student Learning Outcomes

The master's program in political science is designed to give students a broad background in the field. In each class research and writing skills are emphasized. Students who intend to go into Ph.D. programs should choose the thesis option.

Admissions

To be admitted as a regular graduate student in political science, an applicant must have an adequate background in the social sciences. An undergraduate degree in political science is recommended but not required. The department does require 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 interests in graduate work in political science.
5. Two letters of recommendation from professors, employers 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.

Requirements for 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 in thesis courses, 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.

Requirements for Graduation

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. 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 5680 (Traditions, Theories and Trends in Political Science). 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 instructor) and to demonstrate graduate-level competency and achievement in the subject, and the students must take the course for graduate credit and complete it with a grade of B or better.

No more than nine credit hours of 300- or 400-level coursework taken for graduate credit will count toward the M.A. in political science. No course taken for undergraduate credit at UMKC may be repeated for graduate credit. 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.

No more than six hours of approved credit may be transferred from another recognized graduate school, and no more than six hours of pre-approved graduate coursework in other UMKC departments will be accepted toward the degree.

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.

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.

Bachelor of Arts: Political Science

Student Learning Outcomes

The Department strives to give students an understanding of the political process within the United States, within other political systems, and between countries and other international actors. We also attempt to develop research skills through methods courses and our Senior Seminar.

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.

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 (including POL-SCI 490 or POL-SCI 492WI) 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.

A political science degree will be granted only to those who have achieved at least a 2.0 GPA in their approved departmental program.

The major in political science serves both to foster a liberal arts education and to meet a range of pre-professional educational objectives. 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 at least four of the following eight subfields. There are often changes and additions to this list, and some courses are not taught regularly. Meet with the department's undergraduate adviser for more informatio.

Approaches to the Study of Politics

- POL-SCI 303 Political Behavior
- POL-SCI 318 Political Psychology

Political Theory

- POL-SCI 301 Western Political Philosophy
- POL-SCI 338 Religion And Politics
- POL-SCI 339 Cyberspace, Technology & Politics
- 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 441 Political Freedom
- POL-SCI 442 American Political Thought

Public Law

- 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 429 Courts And Public Policy

Comparative Politics

- POL-SCI 304 Politics Of The Developing Nations
- POL-SCI 311 Comparative Politics: Techniques Of Social Control
- POL-SCI 317 Revolutionary Origins Of The Modern State
- 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 358 Latin American Politics
- POL-SCI 369 Politics Of The Middle East
- POL-SCI 425 Comparative Politics
- POL-SCI 428 Political Culture And Political Behavior

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 336 American Foreign Policy
- POL-SCI 435P Politics Of The Environment
- POL-SCI 432 National Security Policy
- POL-SCI 451 International Politics In Europe

American National Politics

- POL-SCI 308 Politics, Parties And Pressure Groups
- POL-SCI 309 Public Opinion And Voting Behavior
- POL-SCI 310 Parliamentary Systems
- POL-SCI 312 Mass Media And American Politics
- POL-SCI 315 Public Policy
- POL-SCI 319 Campaigns And Elections
- POL-SCI 326 Racial & Ethnic Politics
- POL-SCI 343 The Politics of Social Security
- POL-SCI 406 Presidential Politics
- POL-SCI 406P Political Leadership
- POL-SCI 407 Congressional Politics
- POL-SCI 407P Politics Of Representation
- POL-SCI 408 Judicial Politics
- POL-SCI 409 Bureaucratic Politics
- POL-SCI 409P Bureaucratic Politics

American State and Local Politics

- POL-SCI 313 Politics In The American States
- POL-SCI 314 Local Governments
- POL-SCI 328 State And Local Government
- POL-SCI 424 Urban Politics and Community Power Structures
- POL-SCI 438 Urban Politics

Study Abroad Programs, Experiential Courses and Internships

- POL-SCI 491 Internship
- Other courses specifically approved by the undergraduate adviser

Note: Courses POL-SCI 497 and POL-SCI 498 will only satisfy a subfield requirement if it is approved by the undergraduate adviser.

Pre-Law

Pre-Law Program

Scotfield 9
 711 E. 51st Street
 (816) 235-6094
<http://cas.umkc.edu/prelaw>

Mailing Address

University of Missouri-Kansas City
 Pre-Law Program
 Scotfield 9
 5100 Rockhill Road
 Kansas City, MO 64110-2499

Faculty Director:

David N. Atkinson, Curators' Professor of Political Science
atkinsond@umkc.edu

Program Coordinator:
Brianne Wyatt
sbwyatt@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 after the meeting, if it is evident that the student has established a workable plan to finish the requirements, and the student has begun the required parts of the application to the law school. This process should be completed as early as possible 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, Derek Moorhead, at derekmoorhead@msn.com.

Psychology

Department of Psychology

[4825 Troost Avenue](#), Suite 124
(816) 235-1318 (Administrative Office)
(816) 235-1062 (FAX)
psychology@umkc.edu
<http://cas.umkc.edu/psyc>

Undergraduate Psychology Advising Office
4825 Troost Avenue, Suite 110
(816) 235-1092 (Undergraduate Advising)
umkcpuga@umkc.edu
<http://cas.umkc.edu/psyc/Undergraduate.asp>

Mailing Address

University of Missouri-Kansas City
Department of Psychology
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:

Diane L. Fillion 

Associate Professors:

Delwyn Catley, Diane L. Fillion (chair), Linda Garavalia, Leah K. Gensheimer, Kathleen J. Goggin, Tamera Murdock, Lisa Terre

Assistant Professors:

Kymerly Bennett, Jannette Berkley-Patton, Jared M. Bruce, Christopher T. Lovelace, Jennifer D. Lundgren, Melisa Rempfer, Marne L. Sherman

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- Doctor of Philosophy: Clinical Program (Health Emphasis)
 - Admission Criteria
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- Interdisciplinary Doctor of Philosophy: Non-clinical Health Psychology
- Graduate Psychology (PSYCH) Courses

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 and Truman Medical Center. 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 the "Degree Programs" link at the Department of Psychology Web site, <http://cas.umkc.edu/psyc>, 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

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 http://cas.umkc.edu/psyc/News_Events.asp.

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. For more information, see the Psi Chi Web site at <http://cas.umkc.edu/psyc/psichi/index.htm>.

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 psychology advising Web site, <http://cas.umkc.edu/psyc/undergrad/advising.htm>, for more information.

Financial Aid

Part-time graduate teaching and research assistantship positions are available in the department. Students interested in GTA/ GRA positions should contact the department chair. In addition, information is available about positions in the community in areas related to psychology.

Doctor of Philosophy: Clinical Program (Health Emphasis)

Contact Person:

Cathy Rawlings 

<http://cas.umkc.edu/psyc/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 Psychology Ph.D. 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>.

Interdisciplinary Doctor of Philosophy: Non-clinical Health Psychology

Minimum degree program requirements for the Interdisciplinary Ph.D. program and discipline-specific requirements for psychology are provided in School of Graduate Studies section of the catalog. A complete description of the program, the admissions policies, and curriculum are provided on the Department of Psychology Web site (<http://cas.umkc.edu/psyc>).

Master of Arts: Psychology

Program Description

Director:

Lisa Terre  

Please visit the Department of Psychology website for application and deadline information for this program at www.umkc.edu/psychology

The master of arts in psychology program prepares students for careers that require the application of psychological principles to the workplace or community 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. There are two program concentrations reflecting the strengths of our faculty:

- Health Psychology
- Quantitative Methods and Research Design

Both concentrations offer thesis and non-thesis options. 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 departmental home page www.umkc.edu/psychology.

Potential applicants should be aware that the psychology M.A. is not designed to prepare students for professional practice as a psychologist. Further, completion of an M.A. in Health Psychology 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.

Student Learning Outcomes

Master of Arts Program in Health Psychology

By the end of the M.A. program in health psychology, students will demonstrate that they can:

1. Apply theoretical principles from psychology to the development of prevention interventions aimed at a range of health-related problems.
2. Summarize and critique the psychology literature, particularly within the field of health psychology.
3. Design empirical studies which allow for the testing of a health psychology hypothesis.
4. Demonstrate knowledge of the range of univariate and multivariate statistical techniques that are used within the field of health psychology.
5. Communicate both orally and in writing at a level that is appropriate for professionals in either the applied or academic health psychology field.

Master of Arts Program in Quantitative Psychology

By the end of the M.A. program in quantitative psychology, students will demonstrate that they can:

1. Summarize and critique the psychology literature, particularly within their chosen area of specialization.
2. Demonstrate their understanding of the range of experimental and non-experimental research designs used in psychological research.
3. Develop research instruments and demonstrate their psychometric properties.
4. Demonstrate knowledge of the range of univariate and multivariate statistical techniques that are used in psychology.
5. Communicate both orally and in writing at a level that is appropriate for professionals in either their chosen area of area of concentration.

Thesis Option:

Those students who hope to pursue additional graduate training (i.e., Ph.D.) are strongly encouraged to select the thesis option. Students who select this option work closely with their M.A. thesis adviser to develop an empirical project, which is evaluated and approved by a committee chosen by the student and his/her adviser. Students are expected to work independently during all aspects of the thesis, including design, data collection, analysis, and write-up. A final report is written by the student, approved by the thesis committee, and submitted to the Graduate School for credit towards the master's degree. The thesis must fulfill the requirements of the School of Graduate Studies, described in the Graduate Catalog. A minimum of 36 credit hours are required, including six hours of supervised research (Psych 5590).

Non-Thesis Option:

Those students who seek to immediately apply their skills in work settings and do not plan to pursue additional graduate training (i.e., Ph.D.) are encouraged to select the non-thesis option. A minimum of 36 credit hours are required, including six hours of supervised research (Psych 5590) resulting in an independent project.

Suggested Plan of Study

Concentration in Quantitative Methods/Research Design

The Quantitative Methods/Research Design concentration 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 research and thesis (thesis option) or directed research (non-thesis option) 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. With the support of their faculty mentor, students in the non-thesis option can collaborate with other professionals outside of the department.

Quantitative Methods/Research Design

Thesis Option:Hours

PSYCH 5516	Advanced Quantitative Methods	3
PSYCH 5517	Multiple Regression and Multivariate Analysis	3
PSYCH 5538	Development and Evaluation of Assessment Tools	3
PSYCH 5601	Experimental Methods in Design and Analysis I	3
PSYCH 5625	Health Research Methods: Intro. to Epidemiology & Clinical Trials	3
PSYCH 5599	Research and Thesis	6
Psychology Elective*		3
Electives**		6

Total30Non-Thesis Option:Hours

PSYCH 5516	Advanced Quantitative Methods	3
PSYCH 5517	Multiple Regression and Multivariate Analysis	3
PSYCH 5538	Development and Evaluation of Assessment Tools	3
PSYCH 5601	Experimental Methods in Design and Analysis I	3
PSYCH 5625	Health Research Methods: Intro. to Epidemiology & Clinical Trials	3
PSYCH 5590	Directed Research	6
Psychology Electives*		9
Electives**		6

Total36

* 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.

** 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.

Concentration in Health Psychology

The Health Psychology concentration offers students the opportunity to develop an understanding of the impact of behavioral, biological, cognitive, environmental and social variables on mental and physical health. Drawing on the research strengths of our faculty, the concentration is particularly appropriate for students who need advanced work to strengthen their profiles in preparation for application to Ph.D. programs, or for those who wish to explore graduate-level work before making a commitment to Ph.D. training. Students take core classes in the major areas of Health Psychology and can develop expertise in a chosen area via additional course selections and research.

Potential applicants should be aware that the Psychology M.A. is not designed to prepare students for professional practice as a psychologist. Further, completion of an M.A. in Health Psychology 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.

Health Psychology

Thesis Option:Hours

PSYCH 5516	Advanced Quantitative Methods	3
PSYCH 5517	Multiple Regression and Multivariate Analysis	3
PSYCH 5601	Experimental Methods in Design and Analysis I	3
PSYCH 5625	Health Research Methods: Intro. to Epidemiology & Clinical Trials	3
PSYCH 5631	Theoretical Foundations of Health Psychology	3
PSYCH 5599	Research and Thesis	6

Psychology Elective (Select one)

PSYCH 5504	Contemporary Issues in Learning	3
PSYCH 5505	Motivation	3
PSYCH 5507	Cognitive Psychology	3
PSYCH 5518	Advanced Biopsychology	3
PSYCH 5538	Development and Evaluation of Assessment Tools	3
PSYCH 5612	Program Evaluation and Research Dissemination	3

Psychology Elective (Select one)

PSYCH 5512	Contemporary Issues in Social Psychology	3
PSYCH 5522	Contemporary Issues in Developmental Psychology	3
PSYCH 5523	Seminar Personality Theory and Methodology	3
PSYCH 5533	Psychopathology	3
PSYCH 5638	Seminar in Health Care Leadership	3
Psychology Elective*		3

Total30Non-Thesis Option:Hours

PSYCH 5516	Advanced Quantitative Methods	3
PSYCH 5517	Multiple Regression and Multivariate Analysis	3
PSYCH 5601	Experimental Methods in Design and Analysis I	3
PSYCH 5625	Health Research Methods: Intro. to Epidemiology & Clinical Trials	3
PSYCH 5631	Theoretical Foundations of Health Psychology	3
PSYCH 5590	Directed Research	6

Psychology Elective (Select one)

PSYCH 5504	Contemporary Issues in Learning	3
PSYCH 5505	Motivation	3
PSYCH 5507	Cognitive Psychology	3
PSYCH 5518	Advanced Biopsychology	3
PSYCH 5538	Development and Evaluation of Assessment Tools	3
PSYCH 5612	Program Evaluation and Research Dissemination	3

Psychology Elective (Select one)

PSYCH 5512	Contemporary Issues in Social Psychology	3
PSYCH 5522	Contemporary Issues in Developmental Psychology	3
PSYCH 5523	Seminar Personality Theory and Methodology	3
PSYCH 5533	Psychopathology	3
PSYCH 5638	Seminar in Health Care Leadership	3
Psychology Elective*		3
Electives**		6

Total36

* 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.

** 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.

Requirements for Retention

A detailed list of requirements for retention can be found in the Master of Arts section in the Psychology Degree Program handbook.

Doctor of Philosophy: Clinical Psychology

Student Learning Outcomes

Students completing the Clinical Psychology (Health Emphasis) Ph.D. Program 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.

Admission Criteria

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 Jan. 15* to be considered for admission the following fall. [Visit the Clinical Psychology program 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 1100; 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 [Clinical Psychology program 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 program Web page. All application materials must be received by January 15th to be considered for admission in the following fall. Please see the [Clinical Psychology program webpage](#) for current application procedures.

The program follows the [American Psychological Association Guidelines for Graduate School Offers and Acceptances](#).

Requirements for Retention

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 program webpage](#).

The following represents the program's core curriculum.

First Year

Fall Semester	Hours
PSYCH 5509 Assessment I: Intellectual & Cognitive Assessment	3
PSYCH 5516 Quantitative Analysis I: Regression & Analysis of Variance	3
PSYCH 5533 Psychopathology	3
PSYCH 5625 Evidenced based Clinical Practice	
-or-	
PSYCH 5632 Health Psychology Interventions	3
PSYCH 5590 Directed Research	
-or-	
PSYCH 5599 Thesis(1)	1
Total Hours	13

Spring Semester	Hours
PSYCH 5510 Assessment Methods in Professional Counseling	3
PSYCH 5517 Quantitative Analysis II: Advanced Topics in Regression & Multivariate Data Analysis	3
PSYCH 5580 Intro to Clinical Skills	3
PSYCH 5590 Directed Research	
-or-	
PSYCH 5599 Thesis(1)	1
PSYCH 5601 Experimental Methods in Design	3
Total Hours	13

Summer Term	Hours
PSYCH 5650 Clinical Practicum(optional)(2)	1

Second Year

Fall Semester	Hours
PSYCH 5580 Structural Equation Modeling	
-or-	
PSYCH 5580 Hierarchical Modeling	3
PSYCH 5590 Directed Research	

-or-

PSYCH 5599 Thesis(1) 2
PSYCH 5625 Evidenced Based Clinical Practice

-or-

PSYCH 5632 Health Psychology Interventions (3) 3
PSYCH 5631 Theoretical Foundations of
Health Psychology 3
PSYCH 5650 Clinical Practicum 1

Total Hours 12

Spring Semester Hours

PSYCH 5538 Development & Evaluation of
Assessment Tools 3
PSYCH 0000 Core Psychology (4) 3
PSYCH 0000 Core Psychology (4)

-or-

PSYCH 5580 Special Topics in Health Psychology 3
PSYCH 5590 Directed Research

-or-

PSYCH 5599 Thesis(1) 2
PSYCH 5650 Clinical Practicum 1

Total Hours 12

SummerTermHours

PSYCH 5650 Clinical Practicum(optional)(2) 1

Third Year

Fall Semester Hours

PSYCH 0000 Core Psychology (4) 3
PSYCH 5580 Supervision 3
PSYCH 5650 Clinical Practicum 1
PSYCH 5696 Pre-Dissertation(5) 2

Total Hours 9

Spring SemesterHours

PSYCH 0000 Core Psychology (4) or Special
Topics in Health Psychology 3
PSYCH 5650 Clinical Practicum 1
PSYCH 5696 Pre-Dissertation(5) 2

Total Hours 6

Summer Term Hours

PSYCH 5650 Clinical Practicum(optional)(2) 1

Fourth Year

Fall Semester Hours

PSYCH 0000 Core Psychology (4) 3
PSYCH 5650 Clinical Practicum 1
PSYCH 5699 Research & Dissertation (5) 2

Total Hours 6

Spring SemesterHours

PSYCH 0000 Core Psychology (4) 3
PSYCH 5650 Clinical Practicum 1
PSYCH 5699 Research & Dissertation(5) 2

Total Hours 6

Fifth Year

Fall Semester Hours

PSYCH 5660	Clinical Health Psychology Internship (6)	1
PSYCH 5699	Research & Dissertation(7)	1
Total Hours		2

Spring SemesterHours

PSYCH 5660	Clinical Health Psychology Internship (6)	1
PSYCH 5699	Research & Dissertation(7)	1
Total Hours		2

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)

Note: This represents the currently recommended sequencing of courses. Students may be allowed to alter this sequencing, with prior approval of the faculty adviser 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 in 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 spring semester. 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 of 12 research credit hours for the Ph.D.

(2) The program requires that students enroll in practicum each regular fall and spring 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) Evidenced Based Clinical Practice and Health Psychology Interventions are both required, however, these courses will be offered in alternate years.

(4) There are 5 core course requirements (see list at the bottom of the core curriculum). In some areas (e.g. Developmental) alternative courses may be used to fulfill the requirement.

(5) The School of Graduate Studies 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.

(6) 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 graduation in the summer. If all other requirements are not completed you will be required to enroll in at least one credit hour (for example, if your dissertation is not yet defended you will enroll in 1 credit of research for the summer semester.

(7) Students who defend their dissertations prior to the fifth 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 1 credit hour of Dissertation each fall and spring semester until it is completed.

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 <http://cas.umkc.edu/psyc/undergrad/advising.htm> for more information.

Student Learning Outcomes

Students graduating with a B.A. in Psychology will:

- Possess a fundamental understanding of the theories, methods and concepts of psychology.
- Comprehend the value of the scientific method for understanding human behavior and solving social and behavioral problems.
- Develop a life-long learning orientation, including critical thinking and reasoning skills.
- Be prepared for highly competitive post-baccalaureate academic programs as well as post-graduation employment throughout the state, region and nation.

Program Requirements

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, 302WI and 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 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 Biopsychology

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 <http://cas.umkc.edu/psyc/undergrad/advising.htm>, for a complete list of undergraduate psychology courses that may serve as these electives. A maximum of 3 credit hours for Psychology 490, Directed Research, may be used toward fulfilling elective requirement.

Music Therapy/Psychology Double Majors

For students double-majoring in Music Therapy and Psychology:

- CONS 260 Clinical Foundations of Music Therapy
can fulfill one of the two required psychology elective courses.
- CONS 435 Psychological Foundations of Music
can fulfill either the third or fourth core area course.

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 senior audit. They will give you the materials you need for the psychology 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.

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 of required coursework in psychology, a minimum of nine hours must be completed at UMKC. An additional two (300/400-level) elective courses are required and must be 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, 316 and 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 core area C or D (308/418 or 304/405/450).

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 - 400 level) courses. The department recommends completing this course as part of the General Education requirements.

Semester 1:

- PSYCH 316 Quantitative Methods in Psychology
- One Core Area A or B Course*

Semester 2:

- PSYCH 302WI Experimental Psychology
- One Core Area A or B Course*

Semester 3:

- Two Core Area C and D Courses*

Semester 4:

- 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.

Religious Studies

Religious Studies

Religious Studies

[Haag Hall](#), Room 204
5120 Rockhill Road
(816) 235-**5704** or **5854**
Fax: (816) 235-**5542**
rel-st@umkc.edu

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

Professors:

Dr. Gary L. Ebersole (Director; Chair, History Dept)

Dr. Jeffrey A. Rydberg-Cox (Co-Chair, Dept of English Language and Literature)

Associate Professor:

Dr. Virginia Blanton (Co-Chair, Dept of English Language and Literature)

Assistant Professors:

Dr. Jeffrey S. Bennett (Sociology/Anthropology), Dr. Theresa Torres (Sociology/Anthropology)

- Description of Program
- Doctoral Program Requirements
- Undergraduate Religious Studies Courses
- Graduate Religious Studies Courses

Description of Program

The Center for Religious Studies (http://cas.umkc.edu/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, religion in America, and immigration and religion. 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
4825 Troost Avenue, Suite 106
(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

Program Director:

Michael Smith

Director of Field Education:

Elaine Spencer-Carver

Faculty:

Gloria Anderson (cultural diversity and practicum integration), Rosalyn Bertram (children, youth & families; developmental disabilities), Betty Blackmon (practice; violence across the life span; human behavior; cultural competency), J. Larry Dyer (practice; substance abuse), Monica Nandan (healthcare), Robert Prue (qualitative research, indigenous support systems, spirituality and social work, human sexuality) Lee Rathbone-McCuan (social policy and aging), Patricia Scott (mental health; evaluation; substance abuse; disabilities), Michael Smith (policy, history of social work), Elaine Spencer-Carver (practice; violence across the life span; children, youth and families; qualitative research), Rhonda Weimer (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.

The mission of the UMKC M.S.W. program is the preparation of competent professionals for advanced generalist social work practice in the urban environment. The M.S.W. program emphasizes three themes across the curriculum: empowerment and social and economic justice; strengths perspective and asset building; and community building.

Achieving proficiency in each of these competency areas results in an M.S.W. graduate with the ability to practice across a variety of social service settings and with a specialty set of skills individualized through the selection of elective courses.

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.

Program Description

The program educates advanced generalist social work practitioners for professional responsibilities in today's challenging human service field. To accommodate working students' schedules, many classes are scheduled for late afternoons, evenings and weekends.

As adult learners, students have opportunities to choose assignments and electives fitting their learning needs. Faculty members view students as active co-directors of the learning process. Group discussion and debate; role playing; and other experiential activities complement readings and written assignments.

The practice-oriented curriculum is focused on advanced generalist social work practice in an urban environment. It is an eclectic theory base for viewing human behavior in the social environment; 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 summer semester and one full-time year of coursework with a supervised field practicum. Any student may attend part-time but must complete the M.S.W. in four years.

The foundation year 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 social service agency 16 hours a week.

In the concentration level year, the curriculum focuses on advanced generalist method within an urban context. 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. Students explore individualized interest by their selection of electives. Then a second field practicum for 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 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.

Admissions

The majority of applicants to M.S.W. programs have a variety of undergraduate degrees. Some people have life or work experience in other fields and are ready for a career change. Others have worked in the human service field and are ready to pursue an M.S.W. degree to advance in their careers.

Applicants who already have a B.S.W. degree can consider the advanced standing program if they have received the B.S.W. degree within the last five years and had a 3.0 grade-point average in the B.S.W. major.

For both the regular and advanced standing programs, applicants should request an admissions packet from the School of Social Work at 816-235-1025. The packet contains an information folder, a program application, and a graduate student application from the University.

In addition to standard materials, applicants must submit an essay in response to the questions:

1. "What social need do you hope to address as a professional social worker?"
2. "What groups of people or what organizational settings might best utilize your personal and professional talents?"

Three confidential references from people able to assess the applicant's work and academic experience and professional potential are required. Students must send this material directly to the program.

While personal interviews are not required, the M.S.W. Admissions Committee may request a meeting with an applicant. Applicants with questions about the program may attend public information sessions, which are scheduled once a month in the Social Work office.

The program is inclusive and draws from a diverse applicant pool. Toward this end, program faculty members make regular community presentations to diverse groups, and work with the Office of Student Affairs to link with student organizations representing women; people of color; gays and lesbians; international students; and students with disabilities. Complete admission requirements include:

1. An application submitted as instructed.
2. A bachelor's degree from an accredited college or university. The applicant's undergraduate education must reflect a sound liberal arts foundation, including courses in the humanities, as well as in the social and behavioral sciences, and human biology.
3. An undergraduate grade-point average of 3.0 or better for the last 60 hours of coursework.
4. In some cases, students may be admitted on a provisional basis if they have less than 3.0 GPA, meet all other admissions requirements, and have submitted a written statement asking to be considered for admission based on: (1) completion of 6 hours of relevant graduate-level coursework, acceptable to the faculty, with a grade-point average of 3.0, reported on an official transcript or (2) evidence of sustained commitment and significant contribution in the field of human services.
5. The program does not give academic credit for life experience or previous work experience.
6. Student transfers from other accredited M.S.W. programs may apply to the program. Some or all of a student's completed coursework will be considered for transferred credit.
7. All applicants transferring from other M.S.W. programs in which they are currently enrolled must be in good standing with the program.

Student Advising

M.S.W. students can seek information and support from the faculty. After admission to the program, students attend an orientation, receive a Student Handbook, and are assigned an academic adviser from the faculty. Ongoing contact with the adviser ensures that a plan of study is meeting the expectations of the student and the guidelines of the M.S.W. program. Part-time students will find the adviser particularly helpful in planning the sequence and the timing of courses and field work. When a student selects a field placement, the field practicum director and a faculty field liaison work with the student and the agency to ensure a quality learning experience. In addition, the M.S.W. program director and the M.S.W. student organization offer opportunities for students to discuss their experience in the program and in the field.

Professional Status

After graduation, students are well prepared to accept a professional social work position with populations at-risk in a variety of social 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.

Master of Social Work

Student Learning Outcomes

The knowledge and skill learning outcomes for graduates from the UMKC M.S.W. Program include the ability to:

1. Apply critical thinking skills within professional contexts, including synthesizing and applying appropriate theories and knowledge to practice interventions.
2. Practice within the values and ethics of the social work profession and with an understanding of, and respect for, the positive value of diversity.
3. Demonstrate the professional use of self.
4. Understand the forms and mechanisms of oppression and discrimination and the strategies and skills of change that advance social and economic justice.
5. Understand and interpret the history of the social work profession and its current structures and issues.
6. Apply the knowledge and skills of a generalist social work perspective to practice with systems of all sizes.
7. Apply the knowledge and skills of advanced social work practice in an area of concentration.
8. Critically analyze and apply knowledge of bio-psycho-social variables that affect individual development and behavior, and use theoretical frameworks to understand the interactions among individuals and between individuals and social systems (i.e., families, groups, organizations, and communities).
9. Analyze the impact of social policies on client systems, workers, and agencies and demonstrate skills for influencing policy formulation and change.
10. Evaluate relevant research studies and apply findings to practice, and demonstrate skills in quantitative and qualitative research design, data analysis, and knowledge dissemination.
11. Conduct empirical evaluations of their own practice interventions and those of other relevant systems.
12. Use communication skills differentially with a variety of client populations, colleagues, and members of the community.
13. Use supervision and consultation appropriate to advanced practice in an area of concentration.
14. Function within the structure of organizations and service delivery systems and seek necessary organizational change.

Plan of Study

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 concentration level courses. The plan of study is subject to change.

Regular Program

Fall

- SOC-WK 5510 Foundation Field Practicum I (3)
SOC-WK 5530 Human Behavior: Individuals in the Social Environment (3)
SOC-WK 5532 Foundations of Social Work Practice I (3)
SOC-WK 5534 Social Welfare Programs and Policies (3)
SOC-WK 5536 Social Work Research Methods (3)

Spring

- SOC-WK 5511 Foundation Field Practicum II (3)
SOC-WK 5531 Human Behavior: Families, Groups, Organizations, and Communities (3)
SOC-WK 5533 Foundations of Social Work Practice II (3)
SOC-WK 5535 Social Welfare Policy Practice (3)
SOC-WK 5537 Statistical Applications in Social Work Research (3)

Fall

- SOC-WK 5512 Advanced Field Practicum I (3)
SOC-WK 5540 Advanced Social Work Practice I (3)

SOC-WK 5550 Social Work Practice and Program
Evaluation I (3)
XXX Advanced Methods Elective (3)
XXX Integrative Content Elective (3)

Spring

SOC-WK 5513 Advanced Field Practicum II (3)
SOC-WK 5541 Advanced Social Work Practice II (3)
SOC-WK 5579 Capstone Seminar in Social Work (3)
XXX Advanced Methods Elective (3)
XXX Integrative Content Elective (3)

Advanced Standing Program

Advanced standing students must enroll in the following required summer courses; unless SOC-WK 5531, 5535 and 5537 are completed prior to summer matriculation.

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 a comparable advanced-level year curriculum with other program students.

Curriculum Requirements

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 demonstrate acceptable progress towards the degree.
5. Students take four electives in the concentration year, with one elective from Integrative Content electives (Aging, Mental Health and Substance Abuse, Children, Youth and Families or School Social Work) and one elective from Advanced Methods electives required.

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
hankinss@umkc.edu
<http://cas.umkc.edu/soc>

Mailing Address

University of Missouri-Kansas City
Department of Sociology/Anthropology
HH 208
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:

Linda Breytspraak 

Professors Emeriti:

Thomas Carroll, C. Neil Bull

Professors:

Philip G. Olson, Peter Singelmann

Associate Professors:

Linda M. Breytspraak (Department Chair, Director of Center on Aging Studies, and Director of graduate program in Gerontology), Burton Halpert, Shannon Jackson (Coordinator, Anthropology program), Deborah Smith (principal Graduate Adviser, Sociology, and Director of Family Studies Program)

Assistant Professors:

Jeffrey S. Bennett (principal IPh.D. advisor), Jennifer Huberman, Sookhee Oh, Theresa Torres

Visiting Assistant Professors: G. Derrick Hodge, Ann Marie Hickey,

Ricardo Marte (Sociology/Psychology)

Joint Appointment:

Louise Arnold (School of Medicine)

Administrative Assistant:

Susan Hankins

- Department Description
- Department Activities
- Undergraduate Programs
 - Career Implications
 - Admission Requirements
 - Bachelor of Arts: Sociology
 - Student Learning Outcomes
 - Focus Areas for Major
 - Field Experience and Directed Independent Study
 - Program Requirements
 - Minor in Sociology
 - Minor in Anthropology
- Undergraduate Courses in Sociology
- Undergraduate Courses in Anthropology
- Graduate Programs
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 - Student Learning Outcomes
 - Admission Requirements
 - Application Procedures
 - Program Requirements
 - Interdisciplinary Ph.D. Program in Sociology
- Graduate Courses in Sociology
- Graduate Courses in Anthropology

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
- Women's and Gender Studies
- Gerontology

Sociology also participates as a co-discipline in UMKC's Interdisciplinary Ph.D. program. 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. 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
- Criminal Justice & Criminology

Center on Aging Studies

Haag Hall, Room 208
(816) 235-1747
<http://cas.umkc.edu/cas>

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 undergraduate and graduate certificate programs in Gerontology. Students also can complete a minor in Gerontology. Students interested in this area of study should contact the Center on Aging Studies at (816) 235-1747.

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.

Interdisciplinary Ph.D. in Sociology

Sociology is currently participating in UMKC's Interdisciplinary Ph.D. program as a co-discipline. Students interested in this study should review the School of Graduate Studies section of this catalog for general and discipline-specific admission criteria, academic regulations and degree requirements. Additional information may be found at the department's Web site (<http://cas.umkc.edu/soc>). Interested persons may also contact the department's doctoral program adviser at (816) 235-2975.

Master of Arts in Sociology

Student Learning Outcomes

Students with a M.A. 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.

Admission Requirements

Regular admission to the Sociology Master's program typically requires a baccalaureate degree in Sociology from an accredited college or university with an overall undergraduate GPA 2.6, 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 these 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 an 80%: Social Theory, Research Methods, and Statistics (equivalent to SOCIOL 361, 362 and 363). While not a requirement for conditional acceptance, we strongly advise applicants to take at least one (preferably all three) of these courses prior to applying to the program.

Application Procedures

Applicants for the fall semester admission must have all materials submitted by March 1, or February 15 to be considered for graduate teaching or research assistantships available each year. Applicants for the spring semester must submit all materials by November 1. A complete application packet includes the following 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; and
- A two to three page statement outlining your goals for graduate study, the nature of your interest in Sociology, current UMKC faculty whose areas of expertise match your interests, any past experiences that are relevant, as well as your future plans.

In addition, we strongly encourage the student to arrange a personal interview with the principal graduate adviser or other appropriate department faculty prior to or during the admission process.

Curriculum Requirements

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:Hours

SOCIOL 5501	Social Theory I	3
SOCIOL 5502	Social Theory II	3
SOCIOL 5510	Sociological Research Methods I	3
SOCIOL 5511	Sociological Research Methods II	3
SOCIOL 5516	Intermediate Statistics	3

In addition to the 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 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.

Options

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 with respect to 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.

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 minor in Sociology. 18 credit hours of Sociology courses are required for a minor, including the introductory course, SOCIOL 101. 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 3 credit hours can be applied to both. No more than three 1-credit courses of Special Topics in Sociology (SOCIOL 300__) may be used to fulfill Sociology minor requirements.

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 3 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 3 credit hours can be

applied to both. Students should consult with the program coordinator to select the appropriate courses.

Bachelor of Arts: Sociology

Student Learning Outcomes

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.

Program Requirements

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:

	Hours
SOCIOL 101 Sociology: An Introduction	3
SOCIOL 103 Intro. to Cultural Anthropology	3
SOCIOL 361 Social Theory	3
SOCIOL 362 Methods of Sociological Research	3
SOCIOL 363* Intro. to Statistics	3
SOCIOL 404WI** Sociology Capstone: Senior Seminar	3

*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, 103, 361, 362, 363, and 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 300R) may be used to fulfill Sociology elective requirements.

Focus Areas for Major

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.

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 314 Anthropology 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 351 Gender, Work And Social Change
- SOCIOL 433 Immigration and the City
- SOCIOL 441 Developing Countries

Community Engagement:

- SOCIOL 310R Families And The Life Course
- SOCIOL 317 Policies Of Drug Use And Control
- SOCIOL 319 Theoretical Criminology
- SOCIOL 331 Urban Anthropology
- 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 328 Anthropology Of The Body
- ANTHRO 331 Urban Anthropology
- ANTHRO 346 Cultures Of The African Diaspora
- ANTHRO 347 Anthropology of Religion

Field Experience and Directed Individual Study

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) 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 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

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(816) 235-**2702**
Fax: (816) 235-**6552**
theatre@umkc.edu
<http://cas.umkc.edu/theatre>

Mailing Address

- Department Description
- Advising System
- Undergraduate Programs
 - Bachelor of Arts: Theatre
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 - Program Requirements
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Department Description

The Department of Theatre offers the following degrees:

Bachelor of Arts,

Master of Arts centered in theater 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 theater. 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.

Advising System

Advising services for **undergraduate** theatre majors are coordinated by the undergraduate director, Gary Holcombe , (816) 235-2544.

Graduate theatre students may contact the student affairs representative, Cindy Stofiel (stofielc@umkc.edu, 816-235-6683), with general questions. The major professor in each area approves enrollment for each semester.

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 THEATER 130 Foundations of Fine Arts: Theater.

Master of Arts in Theatre

Student Learning Outcomes

Students who complete the M.A. in Theatre will have:

- Studied a broad representative sampling of world dramatic literature.
- Mastered an overview of the history of the theatre, along with some specialized knowledge of a chosen era, aesthetic movement or artist in a historical-cultural context.
- Learned the research skills that will make it possible to pursue an advanced degree.
- Demonstrated ability to communicate ideas in clear and correct writing in English.
- Become familiar enough with various components of the art of the stage to be able to interact effectively 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

Student Learning Outcomes

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.

Retention

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

Student Learning Outcomes

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.
- Technical Skills - mastering the tools of production.
- 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 or costume 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 will be invited by the faculty to return for a second year. 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 THEATREer. 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 THEATREer. 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 THEATREer.

Design/Tech Track

The design/tech track offers students interested in areas of technical THEATREer and design the opportunity to develop the skills necessary to work in the professional THEATREer 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 THEATREer 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 THEATREer 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 THEATREers. Internships and job opportunities frequently occur from these relationships.

Departmental Requirements - 49 total hours

Required Courses - 29 hours

- THEATRE 113 Introduction to Technical Production
- THEATRE 180 Theatre Production
- 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 380 Theatre Production
- THEATRE 415 Beginning Directing (Capstone)
- THEATRE 400 or 497 Theatre Outreach / Internship

Track Requirements - 20 hours

Undergraduates can choose from the following tracks:

- General Theatre
- Performance
- Design/Tech

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)

Theatre Minor

A minor in theater consists of a minimum of 18 credit hours, including THEATRE 130, and 15 additional hours approved by a theater faculty adviser. A minimum of nine hours must be completed at the 300-400 level.

Master of Arts in Theatre

Student Learning Outcomes

Students who complete the M.A. in Theatre will have:

- Studied a broad representative sampling of world dramatic literature.
- Mastered an overview of the history of the theatre, along with some specialized knowledge of a chosen era, aesthetic movement or artist in a historical-cultural context.
- Learned the research skills that will make it possible to pursue an advanced degree.
- Demonstrated ability to communicate ideas in clear and correct writing in English.
- Become familiar enough with various components of the art of the stage to be able to interact effectively with theatre professionals.

The M.A. degree in theater is a research-oriented, two-year degree that will prepare students for admission to Ph.D. programs. Students may plan their programs centered on theater 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.

Urban Studies

Urban Studies

[Robert H. Flarsheim Science and Technology Hall](#)

5110 Rockhill Road, Room 420

(816) 235-**2971**

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driever@umkc.edu

Mailing Address

University of Missouri-Kansas City

Urban Studies

RHFH 420

5100 Rockhill Road

Kansas City, MO 64110-2499

Program Director:

Steven Driever  

Participating Architecture, Urban Planning and Design Faculty:

Michael Frisch, Sungyop Kim, Jacob Wagner

Participating Cookingham Institute of Public Affairs Faculty:

Nicholas C. Peroff, David O. Renz

Participating Criminal Justice and Criminology Faculty:

Ken Novak

Participating Economics and Center for Economic Information Faculty:

Douglas Bowles, Peter Eaton, Mathew Forstater, Erik Olsen

Participating Geosciences Faculty:

Caroline Davies, Steven Driever (director), Wei Ji

Participating History Faculty:

William Worley

Participating Political Science Faculty:

Boris Ricks

Participating Sociology Faculty:

Linda Breytspraak, Shannon Jackson, Sookhee Oh

- 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 contact the Cookingham Institute of Public Affairs in the Bloch School at (816) 235-**2894**.

Bachelor of Arts: Urban Studies

Student Learning Outcomes

Students graduating with a baccalaureate degree in this field will:

- Have a functional knowledge of its basic areas of knowledge.
- Be able to integrate knowledge with critical thinking skills.
- Be able to articulate knowledge, both orally and in writing.
- Be able to conduct and report on independent research.

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
- ECON 336 Kansas City Economy
 - or-
 - ECON 458 Urban Economics
- SOCIOL 362 Methods of Sociological Research
 - or-
 - UPD 300 Quantative Planning Methods and Techniques
- ECON 314 Race, Class and Gender: Theory, History and Policy
 - or-
 - SOCIOL 322 Race and Ethnic Relations
- 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 & 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 Systems (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
- PSYCH 430 Introduction to Community Psychology
- SOCIOL 211 Social & Psychological Development
- SOCIOL 302 Social Stratification
- SOCIOL 322 Race and Ethnic Relations
- SOCIOL 331 Urban Anthropology
- SOCIOL 335R Introduction to Social Work
- SOCIOL 337 Community Development in Urban America
- SOCIOL 348 Latin American Immigrants and Refugees in the United States
- SOCIOL 431 Social Organization of the City
- SOCIOL 433 Immigration and the City

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
- ECON 458 Urban 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

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

University of Missouri-Kansas City
Women's and Gender Studies
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
- Certificate in Girls' Studies
- Interdisciplinary Course Listing
- Women's and Gender Studies Courses

Program Description

First established in the 1980s, Women's and Gender Studies 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. WGS focuses on issues relating to gender in the social sciences, the humanities, law, medicine and nursing. 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.

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/independent study courses on selected topics may be arranged with individual faculty members. WGS courses are offered by numerous departments in the College of Arts and Sciences, as well as in the Schools of Law, Medicine and Nursing.

More information is available on the Women's and Gender Studies program website at http://cas.umkc.edu/wgs/minor_concentration.html

Interdisciplinary Course Listing

American Studies

- AM STUDIES 400CW Introduction to Women's Studies

Anthropology and Sociology

- ANTHRO 300CL/SOCIOL 303CW Introduction to Women's Studies
- ANTHRO 314/5530/SOCIOL 314/5530 Anthropology of Women
- ANTHRO 328 Anthropology of the Body
- ANTHRO 414/5531/SOCIOL 300R Feminist Theories

Art and Art History

- ART 300 Special Topics/Variable Content
- ART 315/497H The Arts of African and New World Cultures
- ART 497 Variable Content

Communications Studies

- COMS 320 Mass Media, Culture & Society

Criminal Justice and Criminology

- CJC 390 New Dimensions for Criminal Justice (Topic: Applied Correctional Interventions for Delinquent Girls)
- CJC 435WI Gender and the Law
- CJC 450 Women, Crime and Criminal Justice
- CJC 476/5576 Gender, Multiculturalism and Crime

English Language and Literature

- ENGLISH 241 Women and Literary Culture: Introduction
- ENGLISH 342WI Women and Rhetoric
- ENGLISH 345WI Women and Literary Culture: Historical Focus
- ENGLISH 410 Black Women Writers
- ENGLISH 441 Girls and Print Culture

Foreign Language and Literature

- SPANISH 480/5580 Latin American Foundational Fictions

History

- HISTORY 300D/5500RD Girlhood and Boyhood in America
- HISTORY 354R/5554 Women in Modern America
- HISTORY 369/5500RD Women and Work in Early America
- HISTORY 400F Gender & Medicine: Patients and Practitioners
- HISTORY 400CC The History and Culture of Nordic Europe, 1750-present
- HISTORY 400CW Introduction to Women's Studies
- HISTORY 412A Women and Family in Medieval and Early Modern Europe
- HISTORY 428A History of the Body

Interdisciplinary Studies

- PACE INT-DISC 482P Meanings of Masculinities
- PACE INT-DISC 483P Artful Man Embodied

Law

- LAW 8714 Gender and Justice

Political Science

- POL-SCI 345 The Politics of Sex and Gender

Psychology

- PSYCH 328 Psychology of Human Sexual Behavior
- PSYCH 405 Motivation
- PSYCH 440 The Psychology of Aging

Religious Studies

- RELIG-ST 400 Special Topic/Variable Content
- RELIG-ST 401 Religion in America
- RELIG-ST 404 Gender and Religion
- RELIG-ST 493 Sex and Religion
- RELIG-ST 494 Death in the History of Religions
- RELIG-ST 495 Time and Space in the History of Religions
- RELIG-ST 496 The Body in the History of Religions

Sociology

- SOC 300 Special Topics/Variable Content
- SOC 310R Families and the Life Course
- SOC 314 Anthropology of Gender
- SOC 318 Sociology of the Aging Woman
- SOC 381P Everyday Masculinities

Women's and Gender Studies

- 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).
- Always maintain a recognition of human diversity and analyze each human issue from a race, class and gender perspective (at a minimum).

Certificate in Girls' Studies

The undergraduate Certificate in Girls' Studies enables students to utilize gender and age to examine girls' lives and girlhood from historical, psychological, anthropological, political, religious and rhetorical perspectives.

The Certificate in Girls' Studies is designed to complement any major, minor or concentration in the humanities, social sciences and biological sciences. The certificate will increase educational opportunities of students pursuing graduate work and/or professional careers in education, law, social service, medicine, mental health, child advocacy organizations and businesses that address the needs of girls in the United States and abroad. The purpose of the Girls' Studies curriculum is to:

- Examine age and generation as forces within past and present cultures and societies.
- Cultivate new insights into topics and methods of inquiry that view girls as a unique category distinct from women and children.
- Encourage critical thinking through cross-cultural comparisons of girls across lines of race, class, ethnicity, religion, sexualities and societies.
- Examine the continuities and changes between girls' social realities and girlhood as a cultural construction of gendered ideals.
- Examine how girls accommodate, negotiate and/or resist prevailing ideals of girlhood.
- Question changing definitions of girlhood and the shifting boundaries between girlhood and womanhood over time and place.
- Discover ways to empower girls and to diminish the threats they face in their everyday lives.

Requirements for the Certificate in Girls' Studies

The Certificate in Girls' Studies may be earned in conjunction with B.A. or B.S. degrees or as a free-standing credential available to non-matriculated students. Students are required to complete nine credit hours in three different disciplines chosen from the courses listed below.

Required Course:

- HISTORY 300D Girlhood and Boyhood in America (3)

Sample Electives:

- ANTHRO 300 (special topics) (3)
- CJC 390 New Dimensions for Criminal Justice Topic (3)
- EDUC 497 Individual Study (3)

- ENGLISH 441 Girls and Print Culture (3)
- HISTORY 400CW Introduction to Women's Studies
- PSYCH 490 Directed Individual Research (3)

With approval from the academic adviser, students pursuing the certificate may also enroll in directed readings courses in order to examine specific subject areas (e.g. eating disorders) not covered in other courses.

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, anthropology, 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.

Previously taken courses that focused on women, girls and gender may already count toward a minor. A maximum of six hours of other coursework may be applied to the minor. An appointment is required with the WGS director.

Women's and Gender Studies
[Haag Hall](#)

Room 204

(816) 235-5854

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 anthropology) 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):

- ANTHRO 414 Feminist Theories (or other courses on feminist theory)
- ANTHRO 300CL/HISTORY 400CW/SOC 303CW/AMER-ST 400CW Introduction to Women's Studies
- WGS 499 Research Seminar (or other research course)

The remaining 15 credits must be selected from a variety of disciplines.

Biological Sciences, School of

School of Biological Sciences

[Biological Sciences Building](#) , Room 013

5007 Rockhill Road

(816) 235-2580

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sbs-undergrad@umkc.edu

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Mailing Address

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School of Biological Sciences

5100 Rockhill Road

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Dean:

Lawrence A. Dreyfus

Graduate Programs Officer:

Karen Bame

Director of Curriculum:

Lynda S. Plamann

Interim Head, Division of Cell Biology and Biophysics:

G. Sullivan Read

Head, Division of Molecular Biology and Biochemistry:

Henry M. Miziorko

- History and Description of the School of Biological Sciences
- Laboratories
- Organizations and Activities
- General Information about Undergraduate Programs in SBS
 - Undergraduate Degree Programs
 - Career Implications of a Bachelor's Degree in Biology
 - Undergraduate Advising
 - Teacher Certification in Biology
- General Information about Graduate Programs in SBS
 - Graduate Admissions
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 - Requirements for Retention
- General Education Requirements for Bachelor's Degrees
- Undergraduate Degrees in Biology
 - Bachelor of Science in Biology

- Student Learning Outcomes
- Program Requirements
- Suggested Plan of Study
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- Bachelor of Science in Biology, Biotechnology Emphasis
- Bachelor of Science in Biology, Cellular and Molecular Basis of Health and Disease Emphasis
- Bachelor of Science in Biology, Pre-Dentistry Concentration
- Bachelor of Science in Medical Technology
- Bachelor of Arts in Biology
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 - Program Requirements
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- Biology Honors Program
- Requirements for a Minor in Biology
- Elective Courses for the Non-Biology Major
- Courses
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 - Life Sciences (LIFE-SCI)
 - Life Sciences - Anatomy (LS-ANATO)
 - Life Sciences - Biochemistry (LS-BIOC)
 - Life Sciences - Microbiology (LS-MCRB)
 - Life Sciences - Physiology (LS-PHYS)
- Graduate Programs
 - Master of Science in Cellular and Molecular Biology
 - Emphasis in Bioinformatics
 - Master of Arts in Biology
 - Doctor of Philosophy Study
- Graduate Courses
 - Biology (BIOLOGY)
 - Life Sciences (LIFE-SCI)
 - Life Sciences - Cell Biology and Biophysics (LS-CBB)
 - Life Sciences - Molecular Biology and Biochemistry (LS-MBB)

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 medical technology
- 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 incorporates intermediate and upper-level biology courses specifically recommended by medical 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.

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, pharmaceuticals, 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 other University documents.

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/programs/graduate/application.html> 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, BIOL 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 BIOL 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

Thesis option	Hours
LS-MBB 5561/5562 General Biochemistry I and II	8
LS-CBB 5530/5520 Cell and Molecular Biology I and II	6
LS-MBB 5611-or- LS-CBB 5612 Seminar	1
LS-MBB 5599-or- LS-CBB 5599 Thesis Research	6
Electives	9
Total	30

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, 5520, 5530, 5566, 5569, 5596, 5597; LS-MBB 5503, 5565, 5567, 5596, 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	Hours
LS-MBB 5561/5562 General Biochemistry I and II	8
LS-CBB 5530/5520 Cell and Molecular Biology I and II	6
LS-MBB 5611 -or- LS-CBB 5612 Seminar	1
Electives	21
Total	36

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, 5520, 5530, 5538, 5566, 5569, 5596, 5597; LS-MBB 5503, 5538, 5565, 5567, 5596, 5597. A limited number of credit hours of upper-level undergraduate courses may be allowed.

Emphasis in Bioinformatics

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.

Required electives:	Hours
DSOM 5508 Statistical Analysis in Business -or- MIS 5552 Data Base Management	3
BIOLOGY 5519 Principles of Evolution	3
BIOLOGY 5525 Bioinformatics and Data Analysis	3
Total	9

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 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 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 MAPP Exam and the Major Field Exam, residency requirements, minimum GPA standards, and other requirements that may be specified.

Requirements for a Minor in Biology

		Hours
BIOLOGY 108	General Biology I	3
BIOLOGY 108L	General Biology I Lab	1
BIOLOGY 109	General Biology II	3
BIOLOGY 109L	General Biology II Lab	1
BIOLOGY 202/ td>	Cell Biology	3
BIOLOGY 206	Genetics	3

One laboratory course chosen from LS-ANATO 118L, 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
BIOLOGY 108	General Biology I	3
BIOLOGY 108L	General Biology I Laboratory	1
BIOLOGY 109	General Biology II	3
BIOLOGY 109L	General Biology II Laboratory	1
BIOLOGY 202	Cell Biology	3
BIOLOGY 206	Genetics	3
LS-BIOC 341	Basic Biochemistry	3

2. Emphasis course requirements (9 credit hours)

		Hours
LS-BIOC 425	Bioinformatics	3
LS-BIOC 430	Molecular Biology and Genetic Engineering	3
BIOLOGY 405	Introduction to Evolution	3

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.

		Hours
LS-BIOC 360WL	Laboratory in Biochemistry and Molecular Biology (WI)	3
BIOLOGY 312WL	Lab in Developmental Biology, Genetics & Cell Biology (WI)	3
LS-MCRB 313L or LS-MCRB 313WL	Laboratory in Microbiology (WI)	3
BIOLOGY 328L or BIOLOGY 328WL	Lab in Histology and Cellular Ultrastructure (WI)	3
LS-ANATO 118L	Introductory Anatomy Lab	2

4. Biology Synthesis requirement (Choose a total of 3 credit hours)

		Hours
BIOLOGY 498WI	Critical Analysis of Biological Issues (WI)	3
LIFE-SCI 490WI	Senior Seminar (WI)	3
LIFE-SCI 499	Undergraduate Research	1-3
LIFE-SCI 497	Special Topics	1-3

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.

		Hours
COMP-SCI 101	Problem Solving and Programming I	3
COMP-SCI 191	Discrete Structures	3
COMP-SCI 201	Problem Solving and Programming II	3
MATH 210	Calculus I	4
MATH 220	Calculus II	4
STAT 235	Statistics	3
PHYSICS 210 or PHYSICS 240	General Physics I or Physics for Science and Engineering I	4-5
PHYSICS 220 or PHYSICS 250*	General Physics II or Physics for Science and Engineering II*	4-5
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 LS401, 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):

		Hours
BIOLOGY 108	General Biology I	3
BIOLOGY 108L	General Biology I Laboratory	1
BIOLOGY 109	General Biology II	3
BIOLOGY 109L	General Biology II Laboratory	1
BIOLOGY 202	Cell Biology	3
BIOLOGY 206	Genetics	3
LS-BIOC 341	Basic Biochemistry	3

2. Emphasis course requirements (12 credit hours):

		Hours
LS-MCRB 313	Introduction to Microbiology	3
BIOLOGY 409	Developmental Biology	3
LS-BIOC 425	Bioinformatics	3
LS-BIOC 430	Molecular Biology and Genetic Engineering	3

3. Laboratory course requirements (9 credit hours; 6 of these must be WI):

		Hours
LS-MCRB 313L or LS-MCRB 313WL	Laboratory in Microbiology	3
BIOLOGY 312WL	Lab in Developmental Biology, Genetics & Cell Biology	3
LS-BIOC 360L or LS-BIOC 360WL	Lab in Biochemistry and Molecular Biology	3

4. Biology synthesis requirement (Choose a total of 3 credit hours):

		Hours
BIOLOGY 498WI	Critical Analysis of Biological Issues (WI)	3
LIFE-SCI 490WI	Senior Seminar (WI)	3
LIFE-SCI 499	Undergraduate Research	1-3
LIFE-SCI 497	Special Topics	1-3

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.

		Hours
COMP-SCI 101	Problem Solving and Programming I	3
STAT 235	Statistics	3
MATH 210	Calculus I	4

MATH 220	Calculus II	4
PHYSICS 210 or PHYSICS 240	General Physics I or Physics for Science and Engineering I	4-5
PHYSICS 220 or PHYSICS 250*	General Physics II or Physics for Science and Engineering II*	4-5
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. 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 allopathic, 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
BIOLOGY 108	General Biology I	3
BIOLOGY 108L	General Biology I Laboratory	1
BIOLOGY 109	General Biology II	3
BIOLOGY 109L	General Biology II Laboratory	1
BIOLOGY 202	Cell Biology	3
BIOLOGY 206	Genetics	3
LS-BIOC 341	Basic Biochemistry	3

2. Emphasis course requirements (15 credit hours)

		Hours
LS-PHYS 316	Principles of Physiology	3
LS-MCRB 313	Microbiology	3
BIOLOGY 409	Developmental Biology	3
LS-BIOC 430	Molecular Biology and Genetic Engineering	3
LS-MCRB 431 or		

3. Laboratory course requirements (minimum of 5 credit hours, must include LS-MCRB 313WL.)

		Hours
LS-MCRB 313WL	Lab in Microbiology (WI)	3
Elective (Choose at least 2 credit hours from the following)		
BIOLOGY 312WL	Lab in Developmental Biology, Genetics & Cell Biology	3
BIOLOGY 328L or BIOLOGY 328WL	Lab in Histology and Cellular Ultrastructure	3
LS-BIOC 360L or LS-BIOC 360WL	Lab in Biochemistry and Molecular Biology	3
LS-ANATO 118L	Introductory Anatomy Lab	2

4. Biology Synthesis requirement (Choose a total of 3 credit hours)

		Hours
BIOLOGY 498WI	Critical Analysis of Biological Issues	3
LIFE-SCI 490WI	Senior Seminar	3
LIFE-SCI 499	Undergraduate Research	1-3
LIFE-SCI 497	Special Topics	1-3

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.

		Hours
MATH 210	Calculus I	4
MATH 220 or STAT 235	Calculus II or Elementary Statistics	3-4
PHYSICS 210 or PHYSICS 240	General Physics I or Physics for Science and Engineering I	4-5
PHYSICS 220 or PHYSICS 250*	General Physics II or Physics for Science and Engineering II	4-5
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. 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		Hours
BIOLOGY 108*	General Biology I	3
BIOLOGY 108L*	General Biology I Lab	1
CHEM 211	General Chemistry I	4
CHEM 211L	Experimental General Chemistry I	1
General Education Requirement (ex: ENGL 110)		3
Total:		12

Spring Semester		Hours
BIOLOGY 109*	General Biology II	3
BIOLOGY 109L*	General Biology II Lab	1
CHEM 212R	General Chemistry II	4
CHEM 212LR	Experimental General Chemistry II	1
General Education Requirement (ex. COMST 110 or 140)		3
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		Hours
BIOLOGY 202	Cell Biology	3
CHEM 321	Organic Chemistry I	3
CHEM 321L	Organic Chemistry I Lab	1
MATH 210*	Calculus I	4
General Education Requirement (ex. English 225)		3
General Education Requirement (ex. Constitution requirement)		3
Total:		17

* Prerequisite MATH 110 or 4 years HS Math including Algebra II, and Trigonometry.

Spring Semester		Hours
BIOLOGY 206	Genetics	3
CHEM 322R	Organic Chemistry II	3
CHEM 322L	Organic Chemistry II Lab	1
MATH 220 or	Calculus II or Elementary	
STAT 235	Statistics	3-4
BIOLOGY ____	Biology Elective	3
Total:		13-14

Junior Year

Fall Semester		Hours
LS-BIOC 341	Basic Biochemistry	3
BIOLOGY ____	Biology Elective	3
PHYSICS 210 or	General Physics I or	
PHYSICS 240	Physics for Science and Engineering I	4-5
General Education Requirement (ex. Humanities Elective)		3
Elective		2
Total:		15-16

Spring Semester		Hours
BIOLOGY ____	Biology Elective	3

BIOLOGY ____	Biology Lab Elective	3
PHYSICS 220or	General Physics II or	
PHYSICS 250	Physics for Science and Engineering II	4-5
General Education Requirement (ex. Higher Order Thinking elective)		3
Elective		2
Total:		15-16

Senior Year

Fall Semester		Hours
BIOLOGY ____	Biology Elective	3
BIOLOGY ____	Biology Elective	3
BIOLOGY ____	Biology Lab Elective	3
General Education Requirement (ex. Social & Behavioral Science Elective)		3
General Education Requirement (ex. Fine Art Elective)		3
Total:		15
Spring Semester		
BIOLOGY ____	Biology Synthesis	3
General Education Requirement (ex. Social and Behavioral Science Elective)		3
BIOLOGY ____	Biology Elective	3
Elective		3
Elective		3
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)

		Hours
BIOLOGY 108	General Biology I	3
BIOLOGY 108L	General Biology I Laboratory	1
BIOLOGY 109	General Biology II	3
BIOLOGY 109L	General Biology II Laboratory	1
BIOLOGY 202	Cell Biology	3
BIOLOGY 206	Genetics	3
LS-BIOC 341	Basic Biochemistry	3

2. Concentration course requirements (17 credit hours)

		Hours
LS-ANATO 118	Introductory Anatomy	3
LS-PHYS 316	Principles of Physiology	3
LS-MCRB 313	Introduction to Microbiology	3
BIOLOGY 409	Developmental Biology	3
BIOLOGY 328	Histology	2
LS-MCRB 435 or LS-BIOC 430	Immunology or Molecular Biology and Genetic Engineering	3

3. Required laboratory courses (BIOLOGY 328WL must be taken using the writing intensive option.)

		Hours
BIOLOGY 328WL	Laboratory in Histology and Cellular Ultrastructure (WI)	3
LS-ANATO 118L	Introductory Anatomy Laboratory	2

4. Biology Synthesis requirement (Choose a total of 3 credit hours)

		Hours
BIOLOGY 498WI	Critical Analysis of Biological Issues	3
LIFE-SCI 490WI	Senior Seminar	3
LIFE-SCI 499	Undergraduate Research	1-3
LIFE-SCI 497	Special Topics	1-3

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.

		Hours
MATH 210	Calculus I	4
MATH 220 or STAT 235	Calculus II or Elementary Statistics	3-4
PHYSICS 210 or PHYSICS 240	General Physics I or Physics for Science and Engineering I	4-5
PHYSICS 220 or PHYSICS 250*	General Physics II or Physics for Science and Engineering II*	4-5
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 PHSYICS 250.

A minimum of 120 credit hours is required; and 36 of these must be at the junior/senior level.

Bachelor of Science in Medical Technology

In the B.S. in medical technology program, the typical student spends the first three years completing the general education and basic science course requirements for the baccalaureate degree on the UMKC campus.

A final 12-month course of clinical studies is completed in an affiliated hospital program accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Affiliated clinical programs are located at North Kansas City Hospital and Saint Luke's Hospital. Admission into the medical technology degree program does not ensure acceptance by an affiliated hospital.

Degree Requirements

In addition to the general education requirements outlined previously, students pursuing a B.S. degree in medical technology must meet the following requirements:

A. Biology Course Requirements

A total of 32 credit hours of biology courses must be completed with grades of C- or better and at least 16 of these must be at the 300/400-level. Ten credit hours from the 30-credit-hour clinical year is counted toward the 42 credit hours required for a B.S. degree. A minimum of 16 credit hours of biology courses must be taken at the School of Biological Sciences.

1. The following courses are required:

		Hours
BIOLOGY 108	General Biology I	3
BIOLOGY 108L	General Biology I Laboratory	1
BIOLOGY 109	General Biology II	3
BIOLOGY 109L	General Biology II Laboratory	1
BIOLOGY 202	Cell Biology	3
BIOLOGY 206	Genetics	3
LS-BIOC 341	Basic Biochemistry	3
LS-PHYS 316	Principles of Physiology	3
LS-MCRB 313	Microbiology	3
LS-MCRB 313WL	Laboratory in Microbiology	3
LS-MCRB 435	Immunology	3

2. In addition, students must take three or more hours, one hour of which must be upper-level, to be chosen from:

		Hours
BIOLOGY 328	Histology	2
BIOLOGY 328L or BIOLOGY 328WL	Laboratory in Histology and Cellular Ultrastructure (WI)	3
LS-ANATO 118	Introductory Anatomy	3
LS-ANATO 118L	Introductory Anatomy Lab	2
LS-MCRB 431	Virology	3
LIFE-SCI 401	Biophysical Principles	3
LS-BIOC 430	Molecular Biology and Genetic Engineering	3
LS-BIOC 360L or LS-BIOC 360WL	Laboratory in Biochemistry and Molecular Biology	3

B. Additional Science and Mathematics Course Requirements

The following courses in mathematics, physics and chemistry are required with grades of C- or better.

		Hours
MATH 210 or STAT 235	Calculus I Elementary Statistics	4 3
PHYSICS 210	General Physics I	4
PHYSICS 220	General Physics II	4
CHEM 211	General Chemistry I	4

CHEM 211L	Experimental General Chem. I	1
CHEM 212R	General Chemistry II	4
CHEM 212LR	Experimental General Chem. II	1
CHEM 320	Elementary Organic Chemistry	4
CHEM 320L	Experimental Organic Chemistry	1
CHEM 341	Analytical Chemistry I: Quantitative Analysis	4

C. Clinical Program

Students must satisfactorily complete a clinical program at an affiliated hospital. This will allow the student to earn 30 credit hours toward the bachelor's degree. Ten of the clinical hours are allowed as upper-level biology credit toward the 42 hours required and 20 clinical hours are allowed as upper-level general science credit. Completion of the clinical program fulfills the Biology synthesis requirement, and the Major Field Exam is waived as the student is off campus their final year.

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, and LS-PHYS 117. 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

Student Learning Outcomes

Students earning a B.A. from the School of Biological Sciences:

- Will have acquired fundamental knowledge in the biological sciences.
- Will have acquired specialized knowledge in cellular, molecular and biochemical aspects of modern biology.
- Will have acquired knowledge in the supporting areas of math and science, including chemistry, physics and statistics or calculus.
- Will have been encouraged to participate in discovery through faculty-directed individual research projects.
- Will have pursued interests in areas of biology beyond the core curriculum through elective coursework.
- Will have demonstrated proficiency in scientific writing.
- Will have acquired the skills needed to independently attain knowledge on topics in biology through literature research.
- Will have completed an individualized plan of study that will prepare them to be competitive in applications for admission to graduate degree programs, professional programs, or technical/industrial careers.
- Will have obtained a well-rounded general education in oral and written communication, humanities and the social sciences.
- Will have been encouraged to consider historical, cultural and ethical impacts and aspects of biology.

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):

		Hours
BIOLOGY 108	General Biology I	3
BIOLOGY 108L	General Biology I Laboratory	1
BIOLOGY 109	General Biology II	3
BIOLOGY 109L	General Biology II Laboratory	1
BIOLOGY 202	Cell Biology	3
BIOLOGY 206	Genetics	3
LS-BIOC 341	Basic Biochemistry	3

2. One of the following biology laboratory courses (minimum 2 credit hours).

		Hours
BIOLOGY 312WL	Laboratory in Developmental Biology, Genetics and Cell Biology	3
LS-MCRB 313L or LS-MCRB 313WL	Laboratory in Microbiology	3
BIOLOGY 328L or BIOLOGY 328WL	Laboratory in Histology and Cellular Ultrastructure	3
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.)

		Hours
BIOLOGY 498WI	Critical Analysis of Biological Issues (WI)	3
LIFE-SCI 490WI	Senior Seminar (WI)	3
LIFE-SCI 499	Undergraduate Research	1-3
LIFE-SCI 497	Special Topics	1-3

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:

		Hours
MATH 210 or STAT 235	Calculus I Elementary Statistics	3-4
PHYSICS 210	General Physics I	4
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 320	Elementary Organic Chemistry	4
CHEM 320L	Experimental Organic Chemistry	1

Bachelor of Science in Biology

Students earning a B.S. from the School of Biological Sciences:

- Will have acquired fundamental knowledge in the biological sciences.
- Will have acquired specialized knowledge in cellular, molecular and biochemical aspects of modern biology.
- Will have acquired knowledge in the supporting areas of math and science, including chemistry, physics and statistics or calculus.
- Will have been encouraged to participate in discovery through faculty-directed individual research projects.
- Will have pursued interests in areas of biology beyond the core curriculum through elective coursework.
- Will have demonstrated proficiency in scientific writing.
- Will have acquired the skills needed to independently attain knowledge on topics in biology through literature research.
- Will have completed an individualized plan of study that will prepare them to be competitive in applications for admission to graduate degree programs, professional programs, or technical/industrial careers.
- Will have obtained a well-rounded general education in oral and written communication, humanities and the social sciences.
- Will have been encouraged to consider historical, cultural and ethical impacts and aspects of biology.

Program Requirements

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.

		Hours
BIOLOGY 108	General Biology I	3
BIOLOGY 108L	General Biology I Laboratory	1
BIOLOGY 109	General Biology II	3
BIOLOGY 109L	General Biology II Laboratory	1
BIOLOGY 202	Cell Biology	3
BIOLOGY 206	Genetics	3
LS-BIOC 341	Basic Biochemistry	3

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.

		Hours
BIOLOGY 312L or BIOLOGY 312WL	Laboratory in Developmental Biology, Genetics and Cell Biology (WI)	3
LS-MCRB 313L or	Laboratory in Microbiology(WI)	

LS-MCRB 313WL		3
BIOLOGY 328L or	Laboratory in Histology and	
BIOLOGY 328WL	Cellular Ultrastructure (WI)	3
LS-BIOC 360L or	Laboratory in Biochemistry	
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:

		Hours
BIOLOGY 498WI	Critical Analysis of Biological Issues (WI)	3
LIFE-SCI 490WI	Senior Seminar (WI)	3
LIFE-SCI 499	Undergraduate Research	1-3
LIFE-SCI 497	Special Topics	1-3

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.

		Hours
MATH 210	Calculus I	4
MATH 220 or	Calculus II or Elementary	
STAT 235	Statistics	3-4
PHYSICS 210 or	Gen. Physics I or Physics	
PHYSICS 240	for Science and Engineering I	4-5
PHYSICS 220 or	Gen. Physics II or Physics for	
PHYSICS 250*	Science and Engineering II*	4-5
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.

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		Hours
BIOLOGY 108*	General Biology I	3
BIOLOGY 108L*	General Biology I Lab	1
CHEM 211	General Chemistry I	4
CHEM 211L	Experimental General Chemistry I	1
General Education Requirement (ex: COMM-ST 110)		3
Total:		12

Spring Semester		Hours
BIOLOGY 109*	General Biology II	3
BIOLOGY 109L*	General Biology II Lab	1
CHEM 212R	General Chemistry II	4
CHEM 212LR	Experimental General Chemistry II	1
General Education Requirement (ex. ENGLISH 110)		3
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		Hours
BIOLOGY 202	Cell Biology	3
CHEM 321	Organic Chemistry I	3
CHEM 321L	Organic Chemistry I Lab	1
MATH 210*	Calculus I	4
General Education Requirement (ex. ENGLISH 225)		3
General Education Requirement (ex. Constitution requirement)		3
Total:		17

* Prerequisite MATH 110 or 4 years HS Math including Algebra II, and Trigonometry.

Spring Semester		Hours
BIOLOGY 206	Genetics	3
CHEM 322R	Organic Chemistry II	3
CHEM 322L	Organic Chemistry II Lab	1
MATH 220 or	Calculus II or Elementary	
STAT 235	Statistics	3-4
BIOLOGY ____	Biology Elective	3
Total:		13-14

Junior Year

Fall Semester		Hours
LS-BIOC 341	Basic Biochemistry	3
BIOLOGY ____	Biology Elective	3
PHYSICS 210 or	General Physics I or	
PHYSICS 240	Physics for Science and Engineering I	4-5
General Education Requirement (ex. Humanities Elective)		3
Elective		2
Total:		15-16

Spring Semester		Hours
BIOLOGY ____	Biology Elective	3

BIOLOGY ____	Biology Lab Elective	3
PHYSICS 220 or	General Physics II or	
PHYSICS 250	Physics for Science and Engineering II	4-5
General Education Requirement (ex. Higher Order Thinking elective)		
Elective		2
Total:		15-16

Senior Year

Fall Semester		Hours
BIOLOGY ____	Biology Elective	3
BIOLOGY ____	Biology Elective	3
BIOLOGY ____	Biology Lab Elective	3
General Education Requirement (ex. Social & Behavioral Science Elective)		
General Education Requirement (ex. Fine Art Elective)		3
Total:		15
Spring Semester		
BIOLOGY ____	Biology Synthesis	3
General Education Requirement (ex. Social and Behavioral Science Elective)		
BIOLOGY ____	Biology Elective	3
Elective		3
Elective		3
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 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 212R, MATH 210, and BIOLOGY 108 and 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 LS 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 LS HONORS 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.

MATH 210 or STAT 235	Calculus I or Elementary Statistics	3-4 cr. hr.
PHYSICS 210 or 240	General Physics I or Physics for Science and Engineering I	4-5 cr. hr.
CHEM 211	General Chemistry I	4 cr. hr.
CHEM 211L	Experimental General Chemistry I	1 cr. hr.
CHEM 212R	General Chemistry II	4 cr. hr.
CHEM 212LR	Experimental General Chemistry II	1 cr. hr.
CHEM 320	Elementary Organic Chemistry	4 cr. hr.
CHEM 320L	Experimental Organic Chemistry	1 cr. hr.

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.

BIOLOGY 108	General Biology I	3 cr. hr.
BIOLOGY 108L	General Biology I Lab	1 cr. hr.
BIOLOGY 109	General Biology II	3 cr. hr.
BIOLOGY 109L	General Biology II Lab	1 cr. hr.
BIOLOGY 202	Cell Biology	3 cr. hr.
BIOLOGY 206	Genetics	3 cr. hr.
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, 9297,		
BMS 9298, 9299	Human Structure Function	7 cr. hr.

C. The following laboratory courses are required.

LS-MCRB 313WL	Laboratory in Microbiology	3 cr. hr.
LS-ANATO 119L	Functional Anatomy Lab I	1 cr. hr.

D. Dual Degree requirement

LS-ANATO 119	Functional Anatomy I	3 cr. hr.
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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. Selected course should not duplicate topics or course material from Human Structure Function series.

4. The UM Biology GPA must be at least 2.0.

5. 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.

Business and Public Administration, Henry W. Bloch School of

Henry W. Bloch School of Business and Public Administration

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- o Management Information Systems (MIS)
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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.) and the master of science in accounting (M.S. in accounting). Within the MBA program there is an Executive MBA (EMBA) offering. 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. For those students who are enrolled in non-business undergraduate degree programs at UMKC, the Bloch School offers a business minor.

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 1,500 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.

Mission and Vision

The Henry W. Bloch School of Business and Public Administration prepares entrepreneurial and innovative leaders to meet the demands of a changing world and advances knowledge and practice through excellent teaching, scholarship, outreach and service.

The Bloch School is a dynamic urban school of business and public administration serving its community and the larger world through excellent teaching, scholarship, outreach, and service. Our graduates are recognized for their innovative solutions to the challenges of a changing global marketplace, entrepreneurial mindset, ethical conduct and critical thinking skills. Our creative scholarship enhances both theoretical understanding and practical applications, and our service and outreach activities advance careers by expanding access to learning and professional development.

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. Advising information can be found at <http://www.bloch.umkc.edu/current-students/student-services/advising/index.aspx>. Faculty of the School's four curricular departments are also available to discuss students' programs. Students in the MPA 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>. February 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 semester, an academic year or in a special summer program at business schools in Europe and other parts of the world. The Bloch School maintains bilateral exchange agreements with business schools in the United Kingdom, France, Germany, Mexico and Spain. 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. Both first-time college students and transfer 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. Applicants should go to the Bloch School Web site at <http://www.bloch.umkc.edu/> for current course and grade requirements and for application materials and deadlines.

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 become academically ineligible to enroll. 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/english/programs/writing/wept.htm>.

The B.B.A. and B.S. in accounting degrees will be awarded on satisfaction of the following:

1. Completion of the degree requirements: 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.
3. Completion of the final 30 consecutive semester hours of coursework at UMKC.
4. Completion of the Written English Proficiency Test, the Measure of Academic Proficiency and Progress, 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. Students should contact the Bloch School Student Services Office for current policies and program requirements. Updates to programs can also be found on the Bloch School Web site at <http://www.bloch.umkc.edu/>.

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.

Exceptions

Exceptions to academic regulations must be approved by the Bloch School Student Services Office or the curricular department. To seek exceptions, students must file a Petition for Exception to Academic Policy, available in the Student Services Office, room 115 of the Bloch School. Written requests are also accepted via e-mail.

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 and M.S. in accounting 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. Applicants to the Executive MBA (EMBA) program 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 score is not required for application to the EMBA program, 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). The emphasis in health services administration in the M.P.A. program has additional admission requirements. Application materials describing these requirements can be found on the Bloch School Web site at <http://www.bloch.umkc.edu/>

Most classes are offered on weekday evenings. Selected courses may be offered in an intensive weekend format. EMBA courses are offered on weekends.

Retention and Graduation Requirements for Graduate Students

All students enrolled in any of the Bloch School graduate programs (MBA, EMBA, M.S. in accounting and 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. 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 course of study falls within the program guidelines. Students should contact the Bloch School Student Services Office for any updates to policies and program requirements. Updates to the programs can also be found on the Bloch School Web site at <http://www.bloch.umkc.edu/>.

All students must file an application for graduation and program of study by the announced campus deadline during the student's last semester in the program (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 MBA and M.S. in accounting, this applies only to courses beyond the core 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 completed within seven years of completion of all requirements for the degree. Evaluation of transfer credit is done by faculty and requires documentation provided by the student.

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

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) (BSSA) elects a board of directors to represent the student body on various campus and school administrative committees and sponsors a number of activities and events.

Entrepreneurship and Innovation Club

The Ei Club facilitates the growth of entrepreneurship and innovation across the entire UMKC campus campus. Through the Institute for Entrepreneurship and Innovation, the Kansas City metropolitan area. The club Ei Club helps facilitate and offer: offers networking opportunities with entrepreneurs, business leaders, entrepreneurs, inventors and

academics, academics; seminars and lunches with successful entrepreneurs, entrepreneurs; training in public speaking, internship opportunities, opportunities; advising in entrepreneurship and innovation and the opportunity to compete participate in the Institute for Entrepreneurship Institute's Venture Creation Challenge and Innovation's annual business plan competition. other programs. For additional information, e-mail: entrepreneurship@umkc.edu or visit the Institute's website.

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.

Financial Management Association

The Financial Management Association serves as a medium for students to become acquainted with finance practitioners and their activities. FMA also highlights what the industry expects from new graduates and how students can best prepare themselves to become successful professionals in today's job market.

Public Administration Student Association

Public Administration Student Association (PASA) PASA is made up of MPA and I.Ph.D. students who are interested in networking and socializing with students and faculty 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

Through the Department of Public Affairs, and the Institute for Entrepreneurship and Innovation (IEI), the Bloch School participates in the Interdisciplinary 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 also may wish to contact the coordinators of doctoral studies for these programs, Dr. Nicholas Peroff, Public Affairs,  at (816) 235-2341 and Dr. Mark Parry, IEI,  at (816) 235-6724.

Master of Business Administration

Student Learning Outcomes

The Bloch School MBA graduate will develop a professional perspective for a career in business, and will be able to:

- Communicate effectively in both oral and written forms.
- Develop an understanding of the functional skills of financial reporting, analysis, and markets; domestic and global economic environments of organizations; creation and distribution of goods and services; and human behavior in organizations; and their inter-relationship.
- Gain a perspective of ethical and global business issues.
- Understand the influence of political, social, legal and regulatory, and environmental and technological issues on business.
- Manage the impact of demographic diversity on organizations.
- Use and apply quantitative analysis skills.
- Demonstrate appropriate use of computerized business applications.

The Bloch School offers a master of business administration (MBA) and an executive master of business administration (EMBA). Students enrolling in the MBA program are required to choose among eight emphasis areas, and their programs will consist of between 30 and 48 credit hours. Most MBA students attend evening courses on a part-time basis and admission is available in the fall, spring and summer 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 only 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, production, economics and marketing) develop specialized knowledge and skills. In addition, the MBA program stresses leadership and the related social and public responsibilities for those in business.

The Curriculum

The MBA degree requires a minimum of 30 hours and a maximum of 48 hours, depending upon the student's educational background. (Of the total 30-48 hours, 12-18 hours beyond the core must be outside the student's area of emphasis).

Students may pursue the MBA program full-time or part-time. Students who have completed the Bloch School B.B.A. or B.S. in accounting programs with grades of C or better in required courses, and who have met MBA admissions standards, may enter directly into the courses beyond the core of the MBA program and complete the degree requirements with 30 hours of coursework. Additionally, students who have completed an undergraduate business degree from an AACSB-accredited institution and have met the MBA admissions standards, are waived from the core with a grade of C or better in the equivalent undergraduate courses.

Students with prior coursework in business (C or better grades) may be exempted from up to 18 credit hours of the 48 required for the degree. Waivers and exemptions are determined based on documentation provided by the student. **Note:** Students who repeat courses that have been waived from their program may not count the repeated course for credit toward their degree.

Previous college work in business is not required, but students with no preparation in mathematics and computer applications must complete Math 110 and MIS 202.

1. Core Courses: 24 Hours

- ACCTNG 5517 Survey of Accounting
- DSOM 5508 Statistical Analysis in Business
- DSOM 5519 Supply Chain and Operations Management
- FIN 5501 Economics for Administration
- FIN 5532 Financial Management
- MGT 5505 Organizational Behavior
- MGT 5510 Legal & International Environment of Business
- MKT 5531 Contemporary Marketing Management

2. Beyond Core Courses: 24-30 Hours

The minimum of 30 credit hours must be completed for the MBA degree, with additional hours possibly required based on educational background. The following must be completed:

- MGT 5537 Competitive Strategies
- Emphasis Area (12 hours)
- Electives (9-15 hours outside of emphasis)

MBA Emphasis Areas

The MBA program offers advanced study in eight emphasis areas:

- Entrepreneurship

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

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. For the most current information on emphasis areas, consult the Bloch School Web site at <http://www.bloch.umkc.edu/graduate/mba/mba-emphasis/index.aspx>.

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. Emphasis areas follow.

Entrepreneurship (12 hours)

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 5585 Venture Capital Finance and Investment
- ENT 5587 Seminar in Entrepreneurship
- ENT 5591 Small Business Management Practicum
- ENT 5597 Independent Research in Entrepreneurship
- Any other course approved by Entrepreneurship faculty.

Finance (12 hours)

- 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 5582 Seminar in Finance

General Management (12 hours)

Select one course from four of the following course areas: Leadership and Change in Human Systems, Law and Society, Strategy and Planning, International Business, or Entrepreneurship (a list of courses in each area is available on the Bloch School Web site at <http://www.bloch.umkc.edu/graduate/mba/mba-emphasis/index.aspx#gm>).

International Business (12 hours)

Four courses selected from the following:

- DSOM 5544 Supply Chain and Logistics Management
- FIN 5551 International Financial Management

- FIN 5552 Global Financial Markets and Institutions
- MGT 5545 International Management
- MGT 5550 The Operation of International Business
- MGT 5552 International Study in Business
- MKT 5555 International Marketing

Leadership & Change in Human Systems (12 hours)

Four courses selected from the following:

- MGT 5516 Leading Teams
- MGT 5533 Leadership and Change in Organizations
- MGT 5560 Strategic Human Resources
- MGT 5566 Strategic Staffing
- MGT 5567 Total Rewards Management

Management of Information Systems (12 hours)

Four courses selected from the following:

- 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 5569 Information Systems Consulting
- MIS 5580 Seminar in Information Systems

Additional elective courses may be selected from the following:

- DSOM 5514 Forecasting Theory & Applications
- DSOM 5542 ERP - Enterprise Resource Planning Systems
- DSOM 5543 Project Management
- DSOM 5544 ERP - Supply Chain and Logistics Management

Marketing (12 hours)

- 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
- ECON 5525 Econometric Methods

Students may confer with a faculty member to select courses that concentrate in Marketing Research and Analysis, Direct Marketing, or other fields; students with an interest in Direct Marketing should complete the following courses: MKT 5539 and MIS 5552. These are not, however, separate emphasis areas.

Operations Management (12 hours)

Required nine hours:

- DSOM 5542 ERP - Enterprise Resource Planning Systems
- DSOM 5543 Project Management
- DSOM 5544 ERP - Supply Chain and Logistics Management

Select one of the following:

- DSOM 5540 Service Operations Management
- DSOM 5541 Total Quality Management

Two or more electives should be selected from the following:

- DSOM 5514 Forecasting Theory and Applications
- ACCTNG 5556 Cost Management
- MIS 5502 Elements of Management Information Systems

Note: Students should ensure that prerequisites are taken in the proper sequence. Prerequisites and program requirements may change. Consult the Bloch School Web site at <http://www.bloch.umkc.edu/> for current information.

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 spring to a new EMBA cohort through a special application process. Students begin coursework in late summer 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 the summer. To ensure that all students are up to speed on academic and business basics, the program starts with self-paced, on-line tutorials in key subject areas, such as finance, accounting, statistics and economics.

Executive Master of Business Administration (EMBA)

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 found in the major disciplines in the fields of business.
- 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.
- Integrate leadership ideas and insights gleaned from coursework and deftly apply these to complex leadership scenarios. In addition, our students will show a much greater awareness of their own leadership strengths and development areas, and will be engaged in the lifelong process of taking action to strengthen their leadership competencies.
- Be exposed to and will comprehend the forces and personalities that shape America's business policy by working effectively in business policy teams.

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 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

- **Financial Decisions and Societal Goals** provides an overview of approaches to business strategy rooted in financial modeling and analysis. The focus is on identifying and developing strategic sensibilities that executives confront in the face of complexity and uncertainty.
- **Team and Community Building** kicks off the program to create relationships among the participants and faculty that facilitate and accelerate learning and to introduce students to the concepts and material in the leadership curriculum.

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. The course provides tools and tactics for assessing organization needs and constraints through multiple lenses, and assessing one's own leadership strengths and weaknesses for development and alignment with organization needs.
- **Managerial Economics** 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.
- **Marketing Management** examines the role of marketing in driving profitable revenue growth in companies. 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 these needs.
- **Financial Reporting Systems** introduces generally accepted accounting principles and concepts along with the preparation and analysis of financial statements.

Semester 2

- **Organizational Finance** will give 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.
- **Influence, Persuasion and Change** presents ideas, strategies and tools for leading change in complex organizations. The course challenges students to think through the execution of change strategies through assessment or organizational power dynamics and appropriate influence styles for achieving results. Emphasis is placed on analyzing those attributes and skills most critical for building influence, especially in change initiatives, and on defining an ethical approach to leading, influencing, and persuading others.
- **Public Policy Context for Business Decisions** is designed to provide intensive exposure to the forces and personalities in Washington 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. *(The course culminates in the 5 day Washington, D.C. residency.)*
- **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.

Innovation Residency

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Entrepreneurship and Innovation Immersion is designed to give students a strong entrepreneurial mindset and to provide students with an understanding of the process for identifying and evaluating business opportunities. The immersion exposes students to complex and difficult new business creation and innovation tasks firms undertake to create profitable businesses and satisfied customers. A business simulator is used to serve as a continuing, evolving "case" in which course participants working in teams assume an entrepreneur or general manager's role. Students will execute true-to-life business decisions and compete with other students in a virtual business world.

Semester 3

- **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 on anti-competitive behavior, protection of intellectual property, operating within a regulated environment and securities law.
- **Strategic Management** develops economic 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 create and communicate a clear direction for a company's future.
- **Operations Management for World Class Competitiveness** examines the basic principles and strategic use of managing the production and distribution of goods and services. This course positions operations as an important tool for achieving strategic leadership through competitive advantage. The managerial integration of OM functions with corporate strategy provides frameworks and tools for dramatically improving business processes.
- **Information Technology as a Strategic Tool** examines the critical linkage between an organization's business, cultural and information technology 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.

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. 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.
- **Global Initiatives in Management** examines the management of contemporary international business organizations in a global economy. The inter-relationship and impact of political, economic, social and technological factors is studied, together with the complex challenges of strategy and execution in global companies. ***(This course includes the 10 day, international residency experience in a major business center abroad.)***
- **Integrated Business Strategies - Capstone Course** integrates the disciplines of business to help the student develop an integrated understanding of business planning and strategy. Students will use cases and simulation to plan and test alternative business strategies in a competitive environment. The course examines the critical factors involved in strategic decision making.

The fourth course in the final semester is a student's choice from among two electives:

- **Innovation and Entrepreneurship** 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 as 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. **OR**

Advanced Topics in Finance covers financial topics of value to today's executive. The topics will address timely, emerging issues such as investments, valuation, mergers and acquisitions, and enterprise risk management.

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 Public Administration

Student Learning Outcomes

Graduates of the Master of Public Administration will acquire organizational, leadership, and managerial knowledge and skills to effectively lead public service organizations. Specifically, the students will:

- Demonstrate analytical/decision-making skills, including the appropriate use of technology applications.
- Use administrative and organizational skills.
- Practice strong communication skills.
- Show an understanding of ethical issues in managing public service organizations.
- Demonstrate self-confidence as a leader to deal with the non-standard solution (often termed ambiguity).
- Develop the ability to work in teams and network with other public administrators.
- Develop an appreciation of diversity within communities.

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 & 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
- PUB-ADM 5530 Capstone Seminar in Public Administration
- HLTH-ADM 5578 The Evaluation and Control of Health Services
- HLTH-ADM 5571 Financial Management Issues in Health and Human Service Organizations
- HLTH-ADM 5585 Seminar in Health Services Administration: Economics of Health and Medicine

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 465 Contemporary Issues in Urban Public Health
- HLTH-ADM 5575 Long-Term Care Policy and Administration
- HLTH-ADM 5577 Health Service Administration and the Health Professions
- HLTH-ADM 5585 Seminar in Health Services Administration
- HLTH-ADM 5586 Supervised Research in Health Services Administration (independent study or internship)

Nonprofit Management (12 hours)

- PUB-ADM 455 Nonprofit Leadership Issues
- PUB-ADM 495 Voluntarism, Philanthropy and the Nonprofit Sector in the United States
- 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)
- HLTH-ADM 5571 Financial Management Issues in Health and Human Services 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. Prerequisites and program requirements may change. Consult the Bloch School Web site at <http://www.bloch.umkc.edu> for current information.

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.

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

Student Learning Outcomes

Graduates of the Master of Science in Accounting degree program will:

- Meet requirements needed for entry into the profession.
- Demonstrate the essential knowledge, skills and abilities to work effectively in teams.
- 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.

Advances in technology and organizational sophistication -- in corporations, not-for-profit organizations, government and public accounting -- are causing dynamic changes in the accounting profession. Such developments require that the educational experience of the accountant be expanded.

Unified Five-Year Program

The approach of the Department of Accountancy to these expanded educational needs is a unified five-year program of study, leading to the bachelor of science in accounting and the master of science in accounting degrees. Students may pursue advanced study in accounting, audit, and taxation. The program is designed with flexibility to allow students the following options:

- Completion of the entire five years at UMKC.
- Entry into the program as an undergraduate transfer student.
- Entry into the program at the graduate level with completion of an undergraduate degree at another university.

Note: Full admission to the graduate program is available to applicants with accounting or non-accounting backgrounds.

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 307 Cost Management **-or-**
ACCTNG 5556 Cost Management
- ACCTNG 310 Intermediate Accounting I
-or-
ACCTNG 5558 Financial Accounting Theory
- ACCTNG 350 Accounting Systems & Controls
- ACCTNG 5517 Survey of Accounting
- FIN 5501 Economics for Administration
- DSOM 5519 Supply Chain and Operations Management
- MKT 5531 Contemporary Marketing Management
- FIN 5532 Financial Management
- DSOM 5508 Statistical Methods for Administrative Decisions
- MGT 5505 Organizational Behavior
- MGT 5510 Legal and International Environment of Business
-or-
MGT 5506 Contract Negotiation and Dispute Resolution
-or-
MGT 5508 Law of Business Associations

Stage Two

(30 credit hours beyond Stage One)

- ACCTNG 311 Intermediate Accounting II

- ACCTNG 5560 Introduction to Auditing
- ACCTNG 5559 Advanced Financial Accounting Theory
- ACCTNG 421 Governmental/Not-for-Profit Accounting
- ACCTNG 409/5557 Introduction to Income Taxation
- ACCTNG 5570 level course in Managerial Accounting
- ACCTNG 5570 level course in Financial Accounting
- ACCTNG 5570 level course in Auditing
- ACCTNG 5570 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 5570 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, 5572, 5573, 5574, 5576 (15 hours)
- ACCTNG 5570 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. Prerequisites and program requirements may change. Consult the Bloch School Web site at <http://www.bloch.umkc.edu>.

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	Freshman English I	3
ENGLISH 225	English II	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 (24 hours)

ACCTNG 210	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
Approved Electives (4-7 hours)		

Students pursuing the B.B.A. degree must complete seven hours of approved electives; students in the B.S. in accounting program must complete four hours of approved electives. A maximum of two hours of PE activity is accepted. Applied or military science and vocational courses may not be taken for elective credit.

General Education Requirements for Students Transferring from Other Missouri Institutions with a Certified 42-Hour Core Curriculum

Students transferring into the Bloch School of Business and Public Administration 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	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	
PHILOS 210	Foundations of Philosophy(or foreign language)	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

Student Learning Outcomes

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.
- Demonstrate the essential knowledge, skills, and abilities to work effectively in teams.
- Exhibit competence in the uses of technology and information systems in modern organizational operations.
- Demonstrate the fundamentals of creating and managing innovation, and new business development for 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 (39 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 301 Effective Business Communication
- MGT 302 Effective Business Research and Presentations
- MGT 306 Legal, Ethical and Regulatory Environment of Business
- MGT 330 Understanding the Individual in the Organization
- MGT 355 Organizational Effectiveness and Leadership
- MGT 471 Strategic Management
- MIS 402 Information Technology Impact & Business Process
- MKT 324 Marketing Concepts

General Electives (9 hours)

Emphasis Areas (15 hours)

Enterprise Management

- DSOM 346 Management Analysis
- MGT 337 Managing Human Capital
- MGT 370 International Management

Plus two courses selected from the following:

- DSOM 431 Quality and Process Improvement
- ENT 332 Managing the New Venture
- FIN 419 Financial Statement Analysis
- MIS 415 Managing the Information Systems Resource
- MKT 348 Market Analysis

Entrepreneurship

Required Courses:

- ENT 215 or ENT 315 Introduction to Entrepreneurship
- ENT 327 Creating the New Venture **OR** ENT 328 Creating the E-Business
- ENT 332 Managing the New Venture

In addition, students must select two of the following electives:

- ENT 341 Technology Entrepreneurship
- ENT 361: New Product Development
- ENT 364: Entrepreneurial Management
- ENT 412: Entrepreneurial Finance and Venture Capital Investment
- 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 will be permitted to waive the Bloch School capstone course, ENT 460; replacing it with a 300- or 400-level Bloch School elective.

Finance

- FIN 340 Global Financial Markets and Institutions
- FIN 345 Investments
- FIN 435 Advanced Corporate Finance

Plus two courses selected from the following:

- ENT 412 Entrepreneurial Finance and Venture Capital Investment
- FIN 419 Financial Statement Analysis
- FIN 427 Debt Instruments and Markets
- FIN 428 Commercial Bank Management

Marketing

- 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. Prerequisites and program requirements may change. Consult the Bloch School Web site at <http://www.bloch.umkc.edu/> for current information.

Bachelor of Science in Accounting

Student Learning Outcomes

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 accounting 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.
- Demonstrate the essential skills, knowledge and abilities to work effectively in teams.
- Exhibit competence in the uses of technology and information systems in modern organizational and accounting operations.

Students seeking an accounting career have the option of selecting a four-year B.S. in accounting degree program or a unified five-year B.S./M.S. in accounting degree (see M.S. in accounting requirements). These programs cover the subject matter that is tested on the Uniform Certified Public Accountants (CPA) Examination and other certification examinations. Seniors in the B.S. in accounting program may begin work on the master of science in accounting degree if pre-approved by the Department of Accountancy based on their formal application to the master of science in accounting program. Courses for the B.S. in accounting program are listed below, and must be completed by all students in the degree program.

Junior Year - First Semester

ACCTNG 307 Cost Management
ACCTNG 310 Intermediate Accounting I
DSOM 309 Intermediate Business Statistics
MGT 301 Effective Business Communication
Economics Elective (ECON 301, 302 or 331)

Junior Year - Second Semester

ACCTNG 311 Intermediate Accounting II
ACCTNG 350 Accounting Systems and Controls
MKT 324 Marketing Concepts
DSOM 326 Production/Operations Management
MGT 330 Understanding the Individual
in the Organization
MGT 302 Effective Business Research and Presentations

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

Note: Students should ensure that prerequisites are taken in the proper sequence. Prerequisites and program requirements may change.

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.

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: 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 215/315: Introduction to Entrepreneurship

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 215/315: Introduction to Entrepreneurship

ENT 327: Creating the New Venture **OR** ENT 328: Creating the E-Business

Entrepreneurship electives:

Students must also complete four additional entrepreneurship electives from an approved list that includes the following courses:

ENT 332: Managing the New Venture

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 with two discipline-related electives that are consistent with their entrepreneurial focus. These electives must be selected from an approved list of courses offered by the School that houses their major discipline.

Total hours for Entrepreneurship minor: 18

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.

Special Programs and Centers

Bloch Executive Education Center

[Bloch School](#)

Bloch Executive Education Center

5110 Cherry, Suite 305

(816) 235-5439

<http://www.bloch.umkc.edu/execed>

Bloch Executive Education is the Kansas City area's university partner for non-degree programs that support organizational transformation initiatives and leadership development for the executive life-long learner. The Center offers custom and open enrollment programs as well as those designed to engage the business, government, and non-profit communities in thoughtful discussion about current topics that affect commerce locally and abroad. Custom programs are designed in concert with corporate clients to meet a specific need of the organization. Open enrollment programs are available to executives and aspiring leaders based on personal and professional competency needs. Our nationally-recognized faculty of instructors and practitioners provoke thought and challenge perspectives through relevant curricula that feature innovative thought, research insights, and business best practices.

Center for International Business

[Bloch School](#)

5110 Cherry St.

<http://www.bloch.umkc.edu/centers-institutes/center-for-international-business/index.aspx>

The Center for International Business at the Bloch School promotes and supports academic study and research in international business. The objectives of the Center include: (1) developing and maintaining international course offerings that support the curricula for the B.B.A., MBA and the EMBA programs; (2) promoting and supporting Bloch School faculty and student involvement in academic exchange programs with international partner business schools throughout the world; (3) maintaining the International Business Information Research Directory (IBIRD) with Web site links to important country and subject information sources and (4) engaging in liaison and outreach activities with UMKC and Kansas City organizations involved in international activities.

Cookingham Institute of Urban Affairs

Bloch School

511> Cherry St.

(816) 235-2894

<http://www.bloch.umkc.edu/centers-institutes/lpcookingham/index.aspx>

The Cookingham Institute promotes community building and development as a means to contribute to urban area revitalization through scholarship, practice, and community involvement. Students become engaged in applied, interdisciplinary research and work with government, business, and nonprofit entities, as the Institute partners with national organizations to bring cutting-edge practices to Kansas City. Cookingham also contributes to community dialogue through Institute grants, contracts, and a variety of other means.

Institute for Entrepreneurship and Innovation

[Bloch School](#)

4747 Troost Ave. 5110 Cherry Street
(816) 235-6200
<http://www.entrepreneurship.bloch.umkc.edu/>

The mission of the Institute for Entrepreneurship and Innovation (IEI) at UMKC is to inspire, nurture and empower students across all disciplines to become entrepreneurs and innovators. World-class faculty at the cutting edge of researching, creating and disseminating knowledge in entrepreneurship drive the curriculum development of the curriculum and the students' educational experience. IEI's goal is that experiential learning will be the basis for all Institute programs, beginning with the Entrepreneurship and Innovation Boot Camp (ENT 215/315: Introduction to Entrepreneurship) and carrying through to the development of commercial real-world ventures in as part of the Student Ventures Program.

UMKC Innovation Center

[Bloch School](#)

4747 Troost Ave.
(816) 235-6600
<http://umkcinnovates.com/>

From whiteboard to boardroom, the UMKC Innovation Center partners with the university and the community to spark entrepreneurial efforts within our region and across the country. With a suite of high-impact programs, the Center helps emerging and existing business owners, whether they are student, faculty or community-based, hone their business basics, evaluate commercialization opportunities, and connect with the right resources at the right time.

KCSOURCELINK KCSOURCELINK/U.S.SOURCELINK/MOSOURCELINK

[Bloch School](#)

The UMKC Institute for Entrepreneurship and Innovation Center
4747 Troost Ave.
(816) 235-6500
<http://kcsourcelink.com/>

KCSOURCELINK connects a network of more than 140 150 resource providers in the Kansas City area that offer business-building services for small business success. Its mission is to help small business grow and prosper by providing business owners easy access to needed services. Aspiring and existing business owners are referred to the appropriate resource through the hotline number and Web site. Through U.S.SOURCELINK, the Innovation Center is implementing similar networks across the country. MOSOURCELINK is one of these networks, providing business support across the state of Missouri.

Lewis White Real Estate Center

[Bloch School](#)

5110 Cherry St.
(816) 235-6288
<http://www.bloch.umkc.edu/centers-institutes/lewis-white-real-estate-center/index.aspx>

The Lewis White Real Estate Center (LWREC) is a comprehensive center that focuses on educating the next generation of real estate leaders in Kansas City and beyond, conducting state-of-the-art research in the field of real estate and providing an educational resource for the community. This newly established center will assist the Bloch School faculty in producing students at both the graduate and undergraduate levels who are qualified to fill entry level and leadership positions in the real estate industry. Additionally, the LWREC strives to better understand 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's education and research outreach center dedicated to building the capacity of nonprofit public service organizations in the Midwest. The Center's mission is to enhance 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.

UMKC Small Business and Technology Development Center

[Bloch School](#)

The UMKC Institute for Entrepreneurship and Innovation Center
4747 Troost Ave.
(816) 235-6063
<http://www.bloch.umkc.edu/sbdc>

The Missouri Small Business Development Centers, a partner with the University of Missouri Extension business development programs, educate individuals to successfully start, run and grow small and entrepreneurial businesses that build a viable economic base, improve lives and enhance communities. The SBTDC provides counseling in topics such as business plan development, financial management, marketing and more. Training programs include start-up, business plans, accounting, cash flow, management and marketing. Information and technology resources include computerized patent, trademark and copyright searches; exporting leads; product design, testing and quality control; manufacturing studies; and plant layout. The SBTDC helps both established businesses and those that are just beginning. The SBTDC is also a leader in creating unique programs that support a particular industry focus. Artist, Inc., for example is a professional development program for all types of artists wishing to create and grow businesses.

Missouri and Heartland Procurement Technical Assistance Centers

[Bloch School](#)

The UMKC Institute for Entrepreneurship and Innovation Center
4747 Troost Ave.
(816) 235-2891
<http://www.moptac.net/>
<http://www.heartlandptac.org/>

The work of PTAC nationwide is to provide businesses with the marketing know-how and technical tools they need to obtain and perform successfully under federal, state and local government contracts. PTAC consultants match government agencies that need products to the companies that can deliver them and assist the company with bidding and contracting. The consultants also help with government registrations and certifications.

Computing and Engineering, School of

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://www.sce.umkc.edu/>

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Kevin Z. Truman

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Department of Computer Science Electrical Engineering:

Chair:

Appie van de Liefvoort
546 Flarsheim Hall
(816) 235-1193

<http://www.csee.umkc.edu/>

- o General Description
- o Financial Assistance
- o Undergraduate Scholarship Information
- o Graduate Assistantships
- o Departments and Programs
 - Civil and Mechanical Engineering
 - Computer Science Electrical Engineering

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 Sprint, led to the development of UMKC's high-tech Computer Science and Telecommunications Program in 1984. These disciplines 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.)

SCE Undergraduate Scholarships

There are several School of Computing and Engineering scholarships available exclusively for SCE undergraduate students. To be eligible, applicants must be accepted to both UMKC and an SCE undergraduate degree program. All award recipients must maintain full-time student enrollment (minimum 12 credit hours/semester) 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. 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://www.umkc.edu/sce> 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
- KC Metro Chapter of American Public Works Association (APWA) Scholarship
- American Society of Civil Engineers (ASCE) Scholarship
- Ken Clark Pizza & Lunch Scholarship
- DST Computer Science Scholarship
- SCE Faculty & Staff Scholarship
- SCE FIRST Robotics Scholarship
- Robert C. Harmon Engineering Scholarship
- HDR Engineering Scholarship and Internship opportunity
- Richard Hetherington CS/IT Scholarship
- Information Products, Inc. Engineering Scholarship
- Kansas City Power & Light Engineering Scholarship
- Kristin J. Loeffelholz Memorial Engineering Scholarship
- Forrest & Joan Lowe Engineering Scholarship
- Doris Markham Swinney Scholarship
- Yolande & Stanley Niu Engineering Scholarship
- Mary Anne and William Osborne Scholarship
- Lee & Mary Louise Rankin Memorial Scholarship
- Ruskin Air and Sound Control Engineering Scholarship and Internship Opportunity
- Jerrold Stach Memorial Scholarship
- Martin Ashton Swinney Memorial Scholarship
- Western Chapter Missouri Society of Professional Engineers Auxiliary Scholarship

Other scholarships are available through the UMKC Financial Aid and Scholarship Office. For more information, refer to <http://www.sfa.umkc.edu>.

Financial Assistance

The University has a number of financial programs, scholarships and awards for the benefit of our students, see <http://www.sfa.umkc.edu/site> for opportunities available to all UMKC students. Opportunities specifically for undergraduate SCE students include a number of scholarships (see the section below). The following are available to first-time degree applicants to UMKC:

- The Chancellor's Nonresident Award (CNR) is available to new SCE domestic students who must pay non-resident tuition.
- The Dean's International Award for Computing and Engineering (DICE) is available to new SCE international students.

Both CNR and DICE awards are decided at the same time that the admission decision is made and no specific application form is required. The CNR and DICE are competitive awards and awarded only to the best qualified applicants. The amount of the CNR award is the Nonresident Fee Differential (up to 9 hours per semester for graduate students, 12 hours for undergraduate students), and the amount of the DICE award is maximally 85% of the Nonresident Fee Differential, depending on the student's qualification. Both the CNR and DICE are renewable if minimum grade-point averages are maintained of 3.00 for undergraduates and 3.50 for graduate students.

Graduate Student Financial Assistance

Scholarships and Awards

There are two types of scholarships and awards available to incoming MS students. No special application form is required to be submitted; the graduate admission committee makes this decision based on the regular application material submitted by the applicants.

Domestic Students (CNR)

For U.S. citizens/permanent residents who are nonresidents of Missouri, a number of nonresident tuition waiver scholarships, known as the chancellor's nonresident (CNR) award, is available for our best applicants; the amount of this award is equal to the nonresident fee differential (currently valued at approximately \$7,800 per year for students taking a full-time load each semester.) The CNR is renewable if a 3.50 GPA is maintained.

Domestic Students (GEM)

A qualified applicant can also apply for a fellowship through the GEM (the National Consortium for Graduate Degrees for Minorities in Engineering and Science) program, which is to U.S. citizens from underrepresented groups; our school is one of the selected schools certified by GEM. For additional information on GEM, go to <http://www.gemfellowship.org/>.

International Students (DICE)

For international students, the Dean's International Award for Computing and Engineering (DICE) is a competitive award available to the most qualified applicants. The amount of this new award is currently valued at up to \$7,300 per year for students taking a full load each semester. This award is only for students newly admitted to SCE and is determined at the time of admission. The DICE is renewable if a 3.50 GPA is maintained.

Graduate Assistantships

A limited number of graduate assistantships are available each semester. 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 they have been able to observe in classroom performance. A limited number of graduate assistantships are available to fully-enrolled graduate students with excellent academic performance and solid communications skills. The actual number of assistantships available each semester is based on total student enrollment. Typically, awards are for quarter-time support, with three-eighths or half-time support a possibility and may include tuition fee waivers. Priority is given to students with excellent communication skills and to students in the Interdisciplinary Ph.D. program. International students must also pass a SPEAK test, administered at UMKC's Applied Language Institute and can not be considered for an assistantship during their first semester of enrollment. Students must apply for these opportunities by sending their application materials by e-mail to griffiths@umkc.edu.

Master of Science in Electrical Engineering

Student Learning Outcomes

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.

Admission Requirements

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. International students must also place in the top 25 percent of his or her graduating class.
6. Three 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.

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 12 hours 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.

Starting the Program

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 worksheet 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.

Degree Requirements

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 the power engineering focus area are listed separately.

Specific Requirements for the Thesis Option:

1. Complete a minimum of three hours and a maximum of six hours E&C-ENGR 5599 Research.
2. Pass a final examination, which is an oral defense of the thesis.
3. Satisfy all common requirements (see below).

Specific Requirements for the Non-Thesis Option:

1. The following courses do not count toward this degree option: E&C-ENGR 5599, E&C-ENGR 5600 or E&C-ENGR 5690.
2. Satisfy all common requirements (see below).

Common Requirements and Limitations for both Thesis Option and Non-Thesis Option:

(Note that the specific requirements for the power engineering focus area are listed separately.)

1. At least 30 credit hours of 400-, 5500- or 5600-level coursework, completed within the past six years.
2. At least 21 hours of 5500/5600-level coursework.
3. At least 24 hours of E&C-ENGR course work, see also below.
4. At least one three-hour course, at the 5500/5600-level, in each of three different concentration areas, with at least two of the areas in E&C-ENGR; a list concentration areas with their courses is provided below.
5. Up to three credit hours of E&C-ENGR 5597 Directed Readings and E&C-ENGR 5697 Advanced Directed Readings, are allowed.
6. The following courses can be used to satisfy degree requirements and can be counted as equivalent to E&C-ENGR courses: COMP-SCI 5511, COMP-SCI 5513, COMP-SCI 5514, COMP-SCI 5517, COMP-SCI 5520, COMP-SCI 5522 and COMP-SCI 5594.
7. No more than six credit hours of transferable graduate coursework from another institution or from other degree programs within UMKC, as approved by the student's graduate faculty adviser.
8. The courses E&C-ENGR 402WI, E&C-ENGR 403WI, E&C-ENGR 493R, E&C-ENGR 494R (or their equivalents) do not count for graduate credit.

Specific Requirements and Limitations for the Electric Power Focus:

1. At least 30 credit hours of 400-, 5500- or 5600-level coursework, completed within the past six years.
2. At least 21 hours of 5500/5600-level coursework.
3. At least 18 hours of E&C-ENGR course work, with at least 12 hours of E&C-ENGR course work in the power concentration.
4. At least one three-hour course, at the 5500/5600-level, in each of three different concentration areas, with at least two of the areas in E&C-ENGR.

5. Up to three hours of E&C-ENGR 5597 Directed Readings and E&C-ENGR 5697 Advanced Directed Readings, is allowed.
6. The following courses can be used to satisfy the power focus requirements. (Note: the course E&C-ENGR 5567 is currently being developed and will be added to the catalog as soon as it has been approved.) ECE460, E&C-ENGR 466, E&C-ENGR 468, E&C-ENGR 470, E&C-ENGR 472, E&C-ENGR 5536, E&C-ENGR 5567, E&C-ENGR 5568, E&C-ENGR 5590AE, E&C-ENGR 5590MC, E&C-ENGR 5660, E&C-ENGR 5664, E&C-ENGR 5670, E&C-ENGR 5672, BA 5519 and BA 5532.
7. The following courses can be used to satisfy degree requirements and can be counted as equivalent to E&C-ENGR courses: COMP-SCI 5511, COMP-SCI 5513, COMP-SCI 5514, COMP-SCI 5517, COMP-SCI 5520, COMP-SCI 5522 and COMP-SCI 5594.
8. The following courses do not count toward this degree option: E&C-ENGR 5599, E&C-ENGR 5600 or E&C-ENGR 5690.
9. No more than six (6) credit hours of transferable graduate coursework from another institution or from other degree programs within UMKC, as approved by the student's graduate faculty adviser.
10. The courses E&C-ENGR 402WI, E&C-ENGR 403, E&C-ENGR 461, E&C-ENGR 493R, E&C-ENGR 494R (or their equivalents) do not count for graduate credit.

Concentration Areas

The faculty provide research and concentration area coursework in:

- Communication and information processing (signal and image processing, electro-optical systems, neural networks).
- Computers and digital systems (computer arithmetic, computer architecture and computer and digital systems).
- Wireless communications (system design, propagation modeling, antenna design, wireless networking, electromagnetic modeling).
- Power (electromechanical conversion I, electromechanical conversion II, power system I, power system II, electrical power distribution systems, reliability of electric power systems, economics of power systems, power systems stability, lightning and switching surges in power systems, application of power electronics in power systems, power systems relaying, direct current power systems, contracts and law for engineers and microcomputer control of power generation systems).
- Computer networking

Thesis Option

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.

Directed Readings

Up to three hours of E&C-ENGR 5597 Directed Readings and 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 student's thesis/supervisory committee 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.

Fast Track (B.S./C.S)

See the Fast Track section under Electrical and Computer Engineering in the undergraduate catalog for information about the Fast Track Electrical Engineering Program.

Graduate Assistantships

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 class room.

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-eighths, 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 and can not be considered for a teaching assistantship during their first semester of enrolment. Furthermore, they 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).

Department of Civil and Mechanical Engineering

Civil Engineering and Mechanical Engineering Department

[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/cme/cme.shtml>

Mailing Address

University of Missouri-Kansas City

Civil and Mechanical Engineering

352 Flarsheim Hall

5100 Rockhill Road

Kansas City, MO 64110-2499

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Mark McClernon 

Professors:

Bryan Becker, Kevin Truman (Dean)

Associate Professors:

Mark McClernon (Department Chair), Trent, Guess, Deborah O'Bannon, Jerry Richardson, Ganesh Thiagarajan

Assistant Professors:

Brian Fricke, Ceki Halmen, John Kevern, Greg King

Assistant Teaching Professor:

Katherine Bloemker

Visiting Professor:

Walter Rychlewski

Adjunct Faculty:

Mike Carlson, David Christianson, Larry Drbal, Steve Hague, Bob Hanlin, Scott Harmon, Dan Justice, Mike Kelly, Tom Kimes, Bob Lambrechts, Forrest Lowe, James Mahoney, Greg Muleski, Marc Richardson, Erich Schmitz, Joe Soltys,

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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 must have been in good academic standing when last enrolled, otherwise, re-admission requires a formal review by the department upon written appeal by the student.

Transfer Admission

Non-first-time college students (transfer students) will be admitted provided they have at least a 2.0 cumulative GPA and a last-term GPA of at least a 2.0 at each institution attended. Otherwise, a formal review with a written appeal by the department is required. GPA's are computed using only transferable coursework applicable toward the civil or mechanical engineering degree. Coursework satisfactorily completed at other universities or colleges is transferable as applicable. Engineering courses are accepted only if they are from ABET-accredited engineering programs or have been approved as part of a transfer articulation agreement.

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 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 is done by the department upon written permission from the visiting student. Enrollment of visiting students in undergraduate civil or mechanical coursework will be done on the Friday before the start of the semester on a space available basis. (For instance if the semester begins on Monday, January 12, then enrollment is done on Friday, January 9.)

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://www.sce.umkc.edu>). 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.

To accommodate part-time and working students, most of the undergraduate classes are conducted in the afternoons and graduate classes are conducted in the evenings.

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

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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.

To accommodate part-time and working students, most of the undergraduate classes are conducted in the afternoons and graduate classes are conducted in the evenings.

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 specialties:

- Environmental and Water Resources
- Structures and Materials
- Transportation

For more information, log onto: <http://www.sce.umkc.edu/cme/research/>.

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 a 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 specialties:

- Biomechanics
- Power
- Refrigeration Applications

For more information, log onto: <http://www.sce.umkc.edu/cme/research/>.

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 a 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.

Civil Engineering and Mechanical Engineering Department

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Graduate Academic Regulations

Transfer of Graduate Credits

- 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.

Academic Standing

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.

Application for Graduation

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.

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. Master's students are allowed to take up to half of their credits in other fields, such as management, geosciences etc., to encourage them to broaden their education beyond the civil engineering field. To accommodate part-time and working students, graduate classes are conducted in the evenings. 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 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 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.

In addition, half of the required credit hours may be earned in other fields, such as management, geosciences etc., to allow students to broaden their education beyond the civil engineering field.

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. Master's students are allowed to take up to half of their credits in other fields, such as management, mathematics, etc., to encourage them to broaden their education beyond the mechanical engineering field. To accommodate part-time and working students, graduate classes are conducted in the evenings. 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 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 graduate coursework (300-level or higher) and three credit hours of independent project (MEC-ENGR 5500F). 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* option requires the completion of a minimum of 30 credit hours of graduate coursework (300-level or higher). The graduate coursework must include at least 24 credit hours of approved graduate coursework (300-level or higher) and six credit hours of thesis work (MEC-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 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.

In addition, half of the required credit hours may be earned in other fields, such as management, mathematics, etc., to allow students to broaden their education beyond the mechanical engineering field.

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.

Undergraduate Academic Regulations for Civil and Mechanical Engineering

Transfer of General Education Credits

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.

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.

Academic Standing

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:

Work Hours/Week Minimum Credit Hours

30+	6
20+	9
0-19	12

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 (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.

Student Learning Outcomes

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.

Curriculum Requirements

The civil engineering curriculum requires a minimum of 126 hours of coursework and satisfies the UMKC General Education requirements.

Total Hours	15	Year 1	Fall Semester Hours	
MATH 210(a)			Calculus I	4
CHEM 211/211L			General Chemistry w/Lab	5
MEC-ENGR 130			Engineering Graphics w/Lab	3
MEC-ENGR 111			Essential Engineering	3
Total Hours	15	Year 1	Spring Semester Hours	
MATH 220			Calculus II	4
PHYSICS 240			Engineering Physics I	5
COMM-ST 110			Fund. Eff. Speaking and Listening	3
ENGLISH 225(b)			English II	3
Total Hours	18	Year 2	Fall Semester Hours	
MATH 250			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	
MATH 345			Ordinary Differential Equations	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	16	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 355WI(c)			Water Resources	5
Constitution Req:			POL-SCI 210/HISTORY 101/102/360R	3
Total Hours	14	Year 4	Fall Semester Hours	
CIV-ENGR 411			Systems Design I	2
CIV-ENGR 422			Reinforced Concrete	3
CIV-ENGR 481			Highway and Traffic Engineering	3
CIV-ENGR Technical			or Non-technical Electives(d)	6
Total Hours	15	Year 4	Spring Semester Hours	
CIV-ENGR 412			Systems Design II	3
CIV-ENGR Technical			or Non-technical Electives(d)	9
General Education(e)				3
Total Hours	126			

Note: Civil engineering students must complete three (3) applied skills requirements prior to graduating. (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) CIV-ENGR Technical and non-technical electives are engineering courses approved by the department. Nine hours of approved technical electives must be completed.
- (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.

Student Learning Outcomes

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 Mechanical Engineering curriculum requires a minimum of 126 hours of coursework and satisfies the UMKC General Education requirements.

Total Hours 15 Year 1 Fall Semester Hours	
MATH 210(a) Calculus I	4
CHEM 211/211L General Chemistry w/Lab	5
MEC-ENGR 130 Engineering Graphics w/Lab	3
MEC-ENGR 111 Essential Engineering	3
Total Hours 15 Year 1 Spring Semester Hours	
MATH 220 Calculus II	4
PHYSICS 240 Engineering Physics I	5
COMM-ST 110 Eff. Speaking and Listening	3
ENGLISH 225(b) English II	3
Total Hours 18 Year 2 Fall Semester Hours	
MATH 250 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	
MATH 345 Ordinary Differential Equations	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 319 Engr. Statistics and Computation	3
MEC-ENGR 324 Engineering Materials w/Lab	4
CIV-ENGR 351 Fluid Mechanics	3
MEC-ENGR 352 Inst. and Meas. Lab I	3
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 Inst. 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 456WI(c) Mech. Component Design	3
MEC-ENGR Technical Elective	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 Energy Systems Design Elective(e)	3
MEC-ENGR Technical Electives(d)	6
General Education(f)	3
Total Hours	126

Note: Mechanical engineering students must complete three (3) applied skills requirements prior to graduating. (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 Engl 110.
- (c) Written English Proficiency Test (WEPT) required before enrollment. Contact English Department for details.
- (d) MEC-ENGR Technical electives are engineering courses approved by the department.
- (e) MEC-ENGR 440 Heating and Air Conditioning or MEC-ENGR 451 Power Plant Design.
- (f) English, ComStudies, Philosophy or Foreign Language 2XX level or above.

Graduate Admissions

Master's Program in Civil or Mechanical Engineering

The School of Computing and Engineering was created in January 2001 by combining the Computer Science Telecommunications Program with the former Coordinated Engineering Program.

The UMKC graduate student has 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 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 score (for international students only); a minimum test score of 550 on the paper-based test or 213 on the computer-based test is needed for acceptance in any graduate engineering program. For tests taken after Sept. 26, 2005, the minimum required score is 80. *TOEFL requirements may be waived for applicants with a baccalaureate from an ABET accredited program.*
- Three letters of recommendation from professors at previous institutions or mentors at work
- Official results of the Graduate Record Exam (GRE) are required for all applicants. A cumulative score of at least 1100 (verbal + quantitative) with 85% on the quantitative portion. *GRE requirements may be waived for applicants with a baccalaureate from an ABET accredited program who have passed the Fundamentals of Engineering (FE) exam and have work experience.*

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 and submit a satisfactory GRE score within the first semester of their program.

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.

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>. The telephone number is (816) 235-1111.

UMKC offers an Interdisciplinary Ph.D. (IPHD) program which consists of two disciplines:

- Coordinating Discipline
- Co-Discipline

Students in civil or mechanical engineering are encouraged to choose *Engineering* as the Coordinating 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

Department of Computer Science Electrical Engineering

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546 Flarsheim Hall
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Chair:

Appie van de Liefvoort

Associate Chair:

Ghulam M. Chaudhry

Curators' Professor:

Khosrow Sohraby (associate dean of research)

Professors:

Ghulam M. Chaudhry (associate chair), Lein Harn, Vijay Kumar, Deep Medhi, E.K. Park, Xiaojun Shen, Appie van de Liefvoort (chair)

Research Professor:

Mary Lou Hines Fritts (CIO and vice provost for academic programs)

Professor Emeritus:

Richard Hetherington

Honorary Professor:

Wen Gao (Peking University, Beijing, China)

Associate Professors:

Cory Beard, Deb Chatterjee, Deendayal Dinakarbandian, Yijie Han, Jerome Knopp, Yugyung Lee, Ken Mitchell, Jerry Place (associate dean of academics)

Associate Teaching Professor:

Judy Mullins

Assistant Professors:

Baek-Young Choi, Reza Derakhshani, W. Daniel Léon-Salas, Praveen Rao, Yu-Ping Wang, Chuanjun Zhang

Visiting Assistant Professor:

Oleg Gusak

Assistant Teaching Professors:

Eddie Burris, Robert Cotter, Brian Hare, Mark Hieber, Kevin Kirkpatrick

Adjunct/Affiliate Faculty:

Charlie Bi (Children's Mercy Hospital), Mark Hoffman (Cerner), Jeff Rydberg-Cox (associate professor and chair, English Language and Literature)

Adjunct Instructors:

Naveed Ahmed, Fred Granville, Reza Jafari, Mike Kelly, Kelly Kerns, Mark Lehnhof, Naresh Mathur, S. Sankar, Saul Spatz

Assistant Professor Emeritus:

David Skitek

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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 2003, the *Region 5 Student Branch Web Site Contest* in 2005 and 2008, and was *Runner Up* in the *IEEE International Student Branch Web Site Contest*, also in 2005. The IEEE also sponsors our robotics team.

[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.

Advising & Registration

For advising in regard to their degree programs, students need to contact the CSEE Department Office. Each student is assigned a faculty adviser. The goal is to have the same faculty member be the student's academic adviser throughout the duration of his/her study. Students are required to meet with their faculty 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. During the advising period, the faculty adviser determines whether the student is meeting degree requirements by reviewing the program advisement form. Any deviations by a student are corrected immediately. Specific information regarding registration is found in the UMKC Class Schedule and on the UMKC Web site.

Program Description: Bachelor of Science and Bachelor of Arts in Computer Science

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 csee@umkc.edu.

Educational Objectives

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.

Career Implications

Computers 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 computer manufacturers, other electronics manufacturers, the communications industry, the defense industry, engineering firms and other commercial concerns.

Program Description: Bachelor of Science in Electrical and Computer Engineering

The Bachelor of Science in Electrical and Computer Engineering (BS-ECE) 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 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>.

Educational Objectives

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.

Career Implications

Job opportunities abound for engineering majors. In terms of starting salaries and the number of job offers, engineering graduates compare favorably with other graduates. In addition, the ECE curriculum at UMKC equips the graduate with the analytical decision-making skills necessary to pursue diverse technical, managerial and entrepreneurial career opportunities.

Program Description: Bachelor of Science in Electrical Engineering

The Bachelor of Science in Electrical Engineering (BS-EE) 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>

and has been so accredited since 1978. The degree is being phased out and students are no longer accepted into this degree program. Students are strongly encouraged to consider enrolling in our degree program leading to the Bachelor of Science in Electrical and Computer Engineering (BS-ECE). Please call (816) 235-1193, or e-mail sce@umkc.edu.)

Graduate Student Financial Assistance

A variety of financial awards are available to our graduate students. The most common awards are the Chancellor's nonresident awards (CNR) and the Deans International Computing and Engineering awards (DICE). Both are awarded on a competitive basis to our best applicants only during initial enrollment. Limited graduate assistantships are also available; however they are usually not available to incoming master's level students in their first semester.

Scholarships and Awards

There are two types of scholarships and awards available to incoming MS students. No special application form is required to be submitted; the graduate admission committee makes this decision based on the regular application material submitted by the applicants.

Domestic Students (CNR)

For U.S. citizens/permanent residents who are nonresidents of Missouri, a number of nonresident tuition waiver scholarships, known as the chancellor's nonresident (CNR) award, is available for our best applicants; the amount of this award is equal to the nonresident fee differential (currently valued at approximately \$7,800 per year for students taking a full-time load each semester.) The CNR is renewable if a 3.50 GPA is maintained.

Domestic Students (GEM)

A qualified applicant can also apply for a fellowship through the GEM (the National Consortium for Graduate Degrees for Minorities in Engineering and Science) program, which is to U.S. citizens from underrepresented groups; our school is one of the selected schools certified by GEM. For additional information on GEM, go to <http://www.gemfellowship.org/>.

International Students (DICE)

For international students, the Dean's International Award for Computing and Engineering (DICE) is a competitive award available to the most qualified applicants. The amount of this new award is currently valued at up to \$7,300 per year for students taking a full load each semester. This award is only for students newly admitted to SCE and is determined at the time of admission. The DICE is renewable if a 3.50 GPA is maintained.

Graduate Assistantships

A limited number of graduate assistantships are available each semester. 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 they have been able to observe in classroom performance. A limited number of graduate assistantships are available to fully-enrolled graduate students with excellent academic performance and solid communications skills. The actual number of assistantships available each semester is based on total student enrollment. Typically, awards are for quarter-time support, with three-eighths or half-time support a possibility and may include tuition fee waivers. Priority is given to students with excellent communication skills and to students in the Interdisciplinary Ph.D. program. International students must also pass a SPEAK test, administered at UMKC's Applied Language Institute and can not be considered for an assistantship during their first semester of enrollment. Students must apply for these opportunities by sending their application materials by e-mail to griffiths@umkc.edu.

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 in:

- Bioinformatics
- 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 areas 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](#).

Master of Science in Electrical Engineering

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 the power engineering focus area are listed separately.

Specific Requirements for the Thesis Option:

1. Complete a minimum of three hours and a maximum of six hours ECE [5599](#) Research.
2. Pass a final examination, which is an oral defense of the thesis.
3. Satisfy all common requirements (see below).

Specific Requirements for the Non-Thesis Option:

1. The following courses do not count toward this degree option: ECE [5599](#), ECE [5600](#) or ECE [5690](#).
2. Satisfy all common requirements (see below).

Common Requirements and Limitations for both Thesis Option and Non-Thesis Option:

(Note that the specific requirements for the power engineering focus area are listed separately.)

1. At least 30 credit hours of 400-, 5500- or 5600-level coursework, completed within the past six years.
2. At least 21 hours of 5500/5600-level coursework.
3. At least 24 hours of ECE course work, see also below.
4. At least one three-hour course, at the 5500/5600-level, in each of three different concentration areas, with at least two of the areas in ECE; a list concentration areas with their courses is provided below.
5. Up to three credit hours of ECE [5597](#) Directed Readings and ECE [5697](#) Advanced Directed Readings, are allowed.
6. The following courses can be used to satisfy degree requirements and can be counted as equivalent to ECE courses: CS [5511](#), CS [5513](#), CS [5514](#), CS [5517](#), CS [5520](#), CS [5522](#) and CS [5594](#).
7. No more than six credit hours of transferable graduate coursework from another institution or from other degree programs within UMKC, as approved by the student's graduate faculty adviser.
8. The courses ECE [402WI](#), ECE [403WI](#), ECE [493R](#), ECE [494R](#) (or their equivalents) do not count for graduate credit.

Specific Requirements and Limitations for the Electric Power Focus:

1. At least 30 credit hours of 400-, 5500- or 5600-level coursework, completed within the past six years.
2. At least 21 hours of 5500/5600-level coursework.
3. At least 18 hours of ECE course work, with at least 12 hours of ECE course work in the power concentration.
4. At least one three-hour course, at the 5500/5600-level, in each of three different concentration areas, with at least two of the areas in ECE.
5. Up to three hours of ECE [5597](#) Directed Readings and ECE [5697](#) Advanced Directed Readings, is allowed.
6. The following courses can be used to satisfy the power focus requirements. (Note: the course ECE 5567 is currently being developed and will be added to the catalog as soon as it has been approved.) ECE [460](#), ECE [466](#), ECE [468](#), ECE [470](#), ECE [472](#), ECE [5536](#), ECE 5567, ECE [5568](#), ECE [5590AE](#), ECE [5590MC](#), ECE [5660](#), ECE [5664](#), ECE [5670](#), ECE [5672](#), BA [5519](#) and BA [5532](#).
7. The following courses can be used to satisfy degree requirements and can be counted as equivalent to ECE courses: CS

[5511](#), CS [5513](#), CS [5514](#), CS [5517](#), CS [5520](#), CS [5522](#) and CS [5594](#).

8. The following courses do not count toward this degree option: ECE [5599](#), ECE [5600](#) or ECE [5690](#).
9. No more than six (6) credit hours of transferable graduate coursework from another institution or from other degree programs within UMKC, as approved by the student's graduate faculty adviser.
10. The courses ECE [402WI](#), ECE [403](#), ECE [461](#), ECE [493R](#), ECE [494R](#) (or their equivalents) do not count for graduate credit.

Concentration Areas

The faculty provide research and concentration area coursework in:

- Communication and information processing (signal and image processing, electro-optical systems, neural networks).
- Computers and digital systems (computer arithmetic, computer architecture and computer and digital systems).
- Wireless communications (system design, propagation modeling, antenna design, wireless networking, electromagnetic modeling).
- Power (electromechanical conversion I, electromechanical conversion II, power system I, power system II, electrical power distribution systems, reliability of electric power systems, economics of power systems, power systems stability, lightning and switching surges in power systems, application of power electronics in power systems, power systems relaying, direct current power systems, contracts and law for engineers and microcomputer control of power generation systems).
- Computer networking

Bachelor of Information Technology

Student Learning Outcomes

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.

Admission Requirements

Although there are no specific admission requirements to this undergraduate degree program other than those specified for admission to the University of Missouri-Kansas City, students contemplating a major in information technology are strongly urged to take as many science and mathematics courses in secondary school as possible. 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.

Curriculum Requirements

Coursework requirements for the B.I.T. degree are categorized into several areas totaling at least 120 hours of study.

Computer Science/Information Technology (42 Hours)

COMP-SCI 101 Prob. Solv. & Prog I
COMP-SCI 191 Discrete Structures I
COMP-SCI 201 Prob. Solv & Prog II
COMP-SCI 281 Intro to Computer Architecture
COMP-SCI 291 Discrete Structures II
COMP-SCI 304WI Ethics and Professionalism
COMP-SCI 352 Data Structures & Algorithms
COMP-SCI 431 Intro. to Operating Systems
COMP-SCI 441 Prog. Lang. Design & Implementation
COMP-SCI 470 Intro. to Database Mgmt. Systems

-or-

COMP-SCI 471 Database Design, Implementation & Validation
INFO-TEC 222 Multimedia Production & Concepts

INFO-TEC 321 Intro. to Computing Resources Admin.
INFO-TEC Advanced Programming Specialty Elective*
INFO-TEC Course Specialty I*
INFO-TEC Course Specialty II*
* Networking (COMP-SCI 420, 421 or 490NA) or
Programming (INFO-TEC 350, COMP-SCI 461, 423, 456 or 475)

General Education Synthesis (3 Hours)

COMP-SCI 451 Software Engineering

Anatomy of Business (18 Hours)

ACCTNG 210 Principles of Accounting
ACCTNG 211 Intro. to Managerial 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,

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 (9 Hours)

PHILOS 222 Foundations of Logic & Scientific Method
Prerequisite: Sophomore standing
Elective: English, Communication Studies, Philosophy
or Foreign Language
Elective: Art/Art History, Conservatory or
Theater

Internship Requirement (6 Hours)General Electives (9 Hours)Total Minimum Requirement: 120 hours

Specialty Areas

B.I.T. students may take courses from the following speciality areas:

Media Design

INFO-TEC 222.

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.

Four Year Program Sample

The following sample four-year program, designed for incoming freshmen, illustrates the careful planning necessary to complete the B.I.T. degree. All students are urged to construct such a four-year plan, in consultation with a B.I.T. degree adviser, as early as possible. While subsequent changes are likely, maintaining a four-year plan provides a coherent path toward the degree.

Courses marked (b) below meet B.I.T. requirements and those marked (g) below meet UMKC general education requirements.

First SemesterHours

COMP-SCI 101(b)	Problem Solv. & Programming	3
COMP-SCI 191(b)	Discrete Structures I	3
ENGLISH 110(g)	Freshman English I	3
COMM-ST 110(g)	Fundamentals of Eff. Speaking	3
MATH 210(b)	Calculus I	4

Total Hours16

Second SemesterHours

COMP-SCI 201(b)	Problem Solv. & Programming II	3
ACCTNG 210(b)	Principles of Accounting	3
Constitution Requirement(g)		3
COMP-SCI 291(b)	Discrete Structures II	3
INFO-TEC 222(b)	Multimedia Prod. and Concepts	3

Total Hours15

Third SemesterHours

COMP-SCI 281(b)	Intro. to Computer Architecture	3
ACCTNG 211(b)	Managerial Accounting	3
STAT 235(b)	Statistics	3
ENGLISH 225(g)	English II	3
Social Science Elective(g)		3

Total Hours15

Fourth SemesterHours

WEPT		0
COMP-SCI 352(b)	Data Structures and Algorithms	3
PHILOS 222(g)	Foundations of Logic	3
MKT 324(b)	Elements of Marketing Concepts	3
INFO-TEC 321(b)	Introduction to Computing Resources Administration	3
General Elective(g)		3

Total Hours15

Fifth SemesterHours

COMP-SCI 304WI(b)	Ethics and Professionalism	3
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COMP-SCI 431(b)	Introduction to Operating Systems	3
INFO-TEC 350(b)	Obj. Oriented Soft. Development	3
Life Sciences Elective(g)		4
Humanities and Fine Arts Elective(g)		3
Total Hours16		
Sixth SemesterHours		
COMP-SCI 441(b)	Programming Languages - Design and Implementation	3
DSOM 326(b)	Operations Management	3
ECON 202(g)	Introduction to Economics II	3
General Elective(g)		3
General Elective(g)		3
Total Hours15		
Seventh SemesterHours		
COMP-SCI 470(b)	Intro. to Database Management	
-or-		
COMP-SCI 471(b)	Database Design, Impl. & Valid.	3
Physical Science Elective(g)		4
INFO-TEC Elective(b)		3
COMP-SCI 491(b)	Internship	3
Business Elective(b)		3
Total Hours16		
Eighth SemesterHours		
INFO-TEC Elective(b)		3
Business Elective(b)		3
COMP-SCI 451(b)	Software Architecture	3
COMP-SCI 491(b)	Internship	3
Total Hours12		

Bachelor of Science/Bachelor of Arts in Computer Science

Student Learning Outcomes

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.

Admission Requirements

Although there are no specific admission requirements to this undergraduate degree program other than those specified for admission to the University of Missouri-Kansas City, students contemplating a major in computer science are strongly urged to take as many science and mathematics courses in secondary school as possible. 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 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.

Curriculum Requirements

The requirements for the B.A. in Computer Science are listed in column **BA**, those for the B.S. in Computer Science are listed in column **BS**.

Computer ScienceBABS

COMP-SCI 101	Prob. Solv. & Prog. I	3	3
COMP-SCI 191	Discrete Structures I	3	3
COMP-SCI 201	Prob. Solv. & Prog. II	3	3
COMP-SCI 281	Intro. to Computer Arch.	3	3
COMP-SCI 282	Assembler Language Prog.	3	3
COMP-SCI 291	Discrete Structures II	3	3
COMP-SCI 304WI	Ethics and Professionalism	3	3
COMP-SCI 352	Data Structures & Algorithms	3	3
COMP-SCI 393	Numerical Analysis & Symbolic Computation	-	3
COMP-SCI 394R	Applied Probability	-	3
COMP-SCI 421	Found. of Data Networks	-	3
-or-			
COMP-SCI 420	Introductory Network Models and Interconnections	-	3
COMP-SCI 431	Intro. to Operating Systems	-	3
COMP-SCI 441	Prog. Lang. Design & Impl.	3	3
COMP-SCI 470	Intro. Database Mgmt. Systems	-	3
-or-			
COMP-SCI 471	Database Design, Implementation and Validation	-	3
COMP-SCI 481	Advanced Computer Arch.	3	3
COMP-SCI	Advanced Electives *	6	6
Minimum Requirement		36	51

* COMP-SCI regular courses numbered 400-499

General Education Synthesis

COMP-SCI 451	Software Engineering	3	3
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Mathematics

MATH 210	Calculus I	4	4
MATH 220	Calculus II	4	4
MATH 250	Calculus III	-	4
STAT 235	Elementary Statistics	-	3
STAT 235 or COMP-SCI 394R or MATH 436		3	-

Minimum Requirement		11	15
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Communicating

ENGLISH 110	Freshman English I	3	3
ENGLISH 225	Freshman English II	3	3
COMM-ST 110	Fundamentals of Speech	3	3
WEPT		0	0

Minimum Requirement		9	9
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Humanities and Fine Arts

Elective: Engl, CommSt, Phil		
or Foreign Language	3	3

Elective: Art/Art History, Conservatory		
or Theater	3	3

Minimum Requirement	6	6
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Life and Physical Sciences

PHYSICS 240 and 250	-	10
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One course in one of the following:		
Physics, Chemistry or Biology	4-5	-
Life Science Course	3	3

Minimum Requirement	7-8	13
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Social and Behavioral Sciences

HISTORY 101, 102, 360R or POL-SCI 210	3	3
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(Meets MO constitution requirement)

Two courses from at least two fields:		
Criminal Justice, Geography, Economics,		
History, Political Science, Psychology,		
Social Science or Sociology	6	6

Minimum Requirement	9	9
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Foreign Language

FRN-LNG 110 or 1 year H.S. study	0-4	-
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FRN-LNG 120 or 2 years H.S. study	0-4	-
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Culture Course(Independent Global Env.)	3	-
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Minimum Requirement	3-11	-
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General Electives

Additional coursework to complete the credit hours needed for graduation

Minimum Requirement	28-36	12-16
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Total Minimum Requirement:120 / 120	120	120
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Concentration Areas

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 471-Database Design, Implementation and Validation, or COMP-SCI 470-Introduction to DBMS.

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 (CS 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.

Four Year Program Sample

The following sample four-year program, designed for incoming freshmen, illustrates the careful planning necessary to complete the B.S.-C.S. degree. All students are urged to construct such a four-year plan, in consultation with a Computer Science degree adviser, as early as possible. While subsequent changes are likely, maintaining a four-year plan provides a coherent path toward the degree. Since the B.A.-C.S. degree requires a subset of courses as far as Computer Science and Mathematics are concerned, they are not shown separately.

First Semester	Hours
COMP-SCI 101 Problem Solving & Programming	3
COMP-SCI 191 Discrete Structures I	3
ENGLISH 110 Freshman English I	3
COMM-ST 110 Fundamentals of Effective Speaking	3
MATH 210 Calculus I	4
Total Hours	16
Second Semester	Hours
COMP-SCI 201 Problem Solving & Programming II	3
MATH 220 Calculus II	4
Constitution Requirement	3
Humanities and Fine Arts Elective	3
General Elective	3
Total Hours	16
Third Semester	Hours
COMP-SCI 281 Intro. to Computer Architecture	3
MATH 250 Calculus III	4
STAT 235 Statistics	3
PHYSICS 240 Physics for Science and Engr. I	5
Total Hours	15
Fourth Semester	Hours
COMP-SCI 282 Assembler Language Programming	3
COMP-SCI 291 Discrete Structures II	3
PHYSICS 250 Physics for Science and Engr. II	5
ENGLISH 225 English II	3
Total Hours	14
Fifth Semester	Hours
WEPT	0
COMP-SCI 352 Data Structures and Algorithms	3
COMP-SCI 394R Applied Probability	3
Social and Behavioral Science Elective	3
Social and Behavioral Science Elective	3
Humanities and Fine Arts Elective	3
Total Hours	15
Sixth Semester	Hours
COMP-SCI 393 Numerical Analysis & Symbolic Computation	3
COMP-SCI 431 Introduction to Operating Systems	3
COMP-SCI 304WI Ethics and Professionalism	3
COMP-SCI 470 Intro. Database Management System	3
Social and Behavioral Science Elective	3
Total Hours	15
Seventh Semester	Hours
COMP-SCI 441 Programming Languages - Design and Implementation	3
COMP-SCI 421 Foundations of Data Networks	3
COMP-SCI 4xx Technical Elective	3
General Elective	5
Total Hours	14
Eighth Semester	Hours
COMP-SCI 451 Software Architecture	3
COMP-SCI 481 Advanced Computer Architecture	3
COMP-SCI 4yy Technical Elective	3
General Elective	3
Total Hours	12

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 3.50 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.

Program Description

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.

Five Year Program Sample

The computer science curriculum requires a total of 150 hours of undergraduate and graduate coursework and satisfies the requirements for both the B.S. in CS and M.S. in CS degrees. This is a sample only, and adjustments can be made for particular situations, please see an adviser to tailor a degree program.

First Year

Fall Semester		Hours
MATH 210	Calculus I	4
ENGLISH 110	Freshman English I	3
COMM-ST 110	Fundamentals of Effective Speaking	3
COMP-SCI 101	Problem Solving & Programming	3
COMP-SCI 191	Discrete Structures I	3
	General Elective	1
Total Hours		17

Spring Semester		Hours
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MATH 220	Calculus II	4
ENGLISH 225	English Composition II	3
PHYSICS 240	Physics for Science and Engr. I	5
COMP-SCI 201	Problem Solving & Programming II	3
COMP-SCI 281	Intro. to Computer Architecture	3
Total Hours		18

Second Year

Fall Semester		Hours
MATH 250	Calculus III	4
PHYSICS 250	Physics for Science and Engr. II	5
COMP-SCI 282	Assembler Language Programming	3
COMP-SCI 291	Discrete Structures II	3
	Constitution Requirement(a)	3
	WEPT	0
Total Hours		18

Spring Semester		Hours
STAT 235	Statistics	3
COMP-SCI 304WI	Ethics and Professionalism	3
COMP-SCI 352	Data Structures and Algorithms	3
COMP-SCI 393	Num. Analysis & Symb. Computation	3
	Art/Art History/Fine Arts Elective(b)	3
	General Elective	3
Total Hours		18

Third Year

Fall Semester		Hours
BIOLOGY 108	General Biology I	3
BIOLOGY 108L	General Biology I Lab	1
COMP-SCI 394R	Applied Probability	3
COMP-SCI 441	Programming Languages - Design and Implementation	3
COMP-SCI 481	Advanced Computer Architecture	3
	Social and Behavioral Science Elective(c)	3
	General Elective	3
Total Hours		19

Spring Semester		Hours
COMP-SCI 421	Found. of Data Networks	3
COMP-SCI 431	Introduction to Operating Systems	3
COMP-SCI 451	Software Architecture	3
	Computer Science Elective	3
	Social and Behavioral Science Elective(c)	3
	General Elective	3
Total Hours		18

Fourth Year

Fall Semester		Hours
COMP-SCI 470	Intro. to DBMS	3
	Computer Science Electives from Graduate Accepted List	3
	General Electives	6
	Computer Science Graduate Course(d)	3
Total Hours		15

Spring Semester		Hours
	Computer Science Graduate Course(d)	9
Total Hours		9

Fifth Year

Fall Semester		Hours
	Computer Science Graduate Course(d)	9
Total Hours		9

Spring Semester		Hours
	Computer Science Graduate Course(d)	9
Total Hours		9

(a) Constitution Requirement may be satisfied by taking either HIST 101, 102, 360R or POLSC 210. (b) Fine Arts electives include art/art history, conservatory or theatre. (c) Social and Behavioral Science electives include criminal justice, economics, geography, history, political science, psychology, social science or sociology. (d) Graduate credit enrollment has degree specific requirements and faculty adviser will work out details of the program in consultation with the student.

Requirements for Graduation

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 degree 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 471), 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 or CS 471, not both), 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

Student Learning Outcomes

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 life-long learning. They are able to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Admission Requirements

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.

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.

Curriculum Requirements

Electrical and Computer Engineering/Computer Science

(Minimum 61 Hours)

	Hours
E&C-ENGR 216 Engineering Computation	4
E&C-ENGR 226 Logic Design	3
E&C-ENGR 227 Logic Design Lab	1
E&C-ENGR 276 Circuit Theory	3
E&C-ENGR 302 Traveling Waves & Fields	4
E&C-ENGR 303 Traveling Waves & Fields Lab	1
E&C-ENGR 330 Electronic Circuits	4
E&C-ENGR 331 Electronic Circuits Lab	1
E&C-ENGR 378 Systems Lab	2
E&C-ENGR 380 Cont. & Discrete Signals	4
E&C-ENGR 381 Cont. & Discrete Signals Lab	1

E&C-ENGR 402WI	Senior Design I	2
E&C-ENGR 403	Senior Design II	3
E&C-ENGR 426	Microcomputer Architecture and Interfacing	3
E&C-ENGR 427	Microcomputer Arch. and Interfacing Lab	1
E&C-ENGR 428R	Embedded Systems	3
E&C-ENGR 429	Embedded Systems Lab	1
COMP-SCI 291	Discrete Structures II	3
COMP-SCI 352	Data Structures and Algorithms	3
COMP-SCI 431	Intro. to Operating Systems	3
Senior Electives: 4 courses, see below for options and restrictions		11
General Engineering (9 Hours)		
MEC-ENGR 111	Essential Engineering	3
CIV-ENGR 211	The Engineering Enterprise	3
CIV-ENGR 311	The Technical Entrepreneur	3
Life and Physical Sciences (15 Hours)		
CHEM 211	General Chemistry I *	4
CHEM 211L	General Chemistry I, Lab *	1
PHYSICS 240	Physics for Science and Engr. I	5
PHYSICS 250	Physics for Science and Engr. II	5
* Students with high school chemistry may petition to take BIOL 108/108L instead.		
Mathematics (19 Hours)		
MATH 210	Calculus I	4
MATH 220	Calculus II	4
MATH 250	Calculus III	4
E&C-ENGR 341	Engineering Mathematics	4
COMP-SCI 394R	Applied Probability	3
Social and Behavioral Sciences (9 Hours)		
HISTORY 101, 102, 360R or POL-SCI 210		3
(Meets MO constitution requirement)		
ECON 201	Introduction to Economics I	
-or-		
ECON 202	Introduction to Economics II	3
Electives: Criminal Justice, Geography, Economics, History, Political Science, Psychology, Social Science or Sociology		
		3
Communicating (6 Hours)		
ENGLISH 225	English II	3
COMM-ST 110	Fund. Effect. Speaking and List.	3
WEPT		0
Humanities and Fine Arts (6 Hours)		
PHILOS 222	Foundations of Logic	
Prerequisite: Sophomore standing		
Elective: Art/Art History, Conservatory or Theater		
		3
Total Minimum Requirement:125		

Concentration Areas

In order to graduate, a student must choose four senior electives. Of these four courses, three must have the E&C-ENGR curricular designation. Furthermore, of these four, at least two must be from within one concentration area. The following concentration areas are recognized:

Communication and Networking

E&C-ENGR 412, E&C-ENGR 474, E&C-ENGR 476, COMP-SCI 420, COMP-SCI 421 or COMP-SCI 423.

Computer and VLSI Systems

E&C-ENGR 416, E&C-ENGR 424 or COMP-SCI 457.

Control and Power

E&C-ENGR 458R, E&C-ENGR 460, E&C-ENGR 461 or E&C-ENGR 466.

Signal and Image Processing

E&C-ENGR 416, E&C-ENGR 480, E&C-ENGR 484 or E&C-ENGR 486.

Other courses, such as special topics courses, might fall in an emphasis area provided that this is approved by the course and curriculum committee. Furthermore, qualified students might be able to take graduate level courses, see adviser. There are some other courses available when there is sufficient demand for these courses, such as ECE482.

Four Year Program Sample

The following sample four-year program, designed for incoming freshmen, illustrates the careful planning necessary to complete the BS in E&C-ENGR degree. All students are urged to construct such a four-year plan, in consultation with an E&C-ENGR degree adviser, as early as possible. While subsequent changes are likely, maintaining a four-year plan provides a coherent path toward the degree. The markings (1) through (7) refer to notes and are explained at the bottom of the table.

First Semester	Hours
MATH 210 Calculus I	4
MEC-ENGR 111 Essential Engineering	3
CHEM 211 General Chemistry I(1)	4
CHEM 211L General Chemistry I, Lab(a)	1
Constitution Requirement(b)	3
Total Hours	15
Second Semester	Hours
MATH 220 Calculus II	4
PHYSICS 240 Physics for Science and Engr. I	5
COMM-ST 110 Fundamentals of Effective Speaking	3
CIV-ENGR 211 Engineering Enterprise	3
ECON 201 Economics I(c)	3
Total Hours	18
Third Semester	Hours
MATH 250 Calculus III	4
PHYSICS 250 Physics for Science & Engr. II	5
E&C-ENGR 216 Engineering Computation	4
E&C-ENGR 226 Logic Design	3
E&C-ENGR 227 Logic Design Lab	1
Total Hours	16
Fourth Semester	Hours
WEPT	0
COMP-SCI 291 Discrete Structures II	3
ENGLISH 225 English II(d)	3
E&C-ENGR 276 Circuit Theory	3
E&C-ENGR 341 Engineering Mathematics	4
PHILOS 222 Foundations of Logic	3
Total Hours	17
Fifth Semester	Hours
COMP-SCI 352 Data Structures and Algorithms	3
COMP-SCI 394R Applied Probability	3
E&C-ENGR 378 Systems Lab	2
E&C-ENGR 380 Signals & Systems	4
E&C-ENGR 381 Signals & Systems Lab	1
E&C-ENGR 426 Microcomputer Architecture and Interfacing	3
E&C-ENGR 427 Microcomputer Architecture and Interfacing Lab	1
Total Hours	17
Sixth Semester	Hours
E&C-ENGR 302 Traveling Waves & Fields	4
E&C-ENGR 303 Traveling Waves & Fields Lab	1
E&C-ENGR 330 Electronic Circuits	4
E&C-ENGR 331 Electronic Circuits Lab	1
E&C-ENGR 428R Embedded Systems	3
E&C-ENGR 429 Embedded Systems Lab	1
Total Hours	13
Seventh Semester	Hours

CIV-ENGR 311 Technical Entrepreneur	3
COMP-SCI 431 Introduction to Operating Systems	3
E&C-ENGR 402WI Senior Design I	2
Senior Elective(e)	3
Senior Elective(e)	3
Total Hours	14
Eighth Semester	Hours
E&C-ENGR 403 Senior Design II	3
Senior Elective(e)	3
Senior Elective(e)	2
Fine Arts(f)	3
Social and Behavioral Science(g)	3
Total Hours	15
Total Hours:	125

- (a) Students with HS chemistry may petition to take BIOLOGY 108/108L instead.
- (b) Constitution Requirement may be satisfied by taking either HISTORY 101, 102, 360R or POL-SCI 210.
- (c) Or ECON 202 Economics II.
- (d) Prereq.: ACT English score at least 30, SAT Verbal score at least 630, AP English Lang/Comp score at least 4, or ENGLISH 110.
- (e) See options and limitations for senior electives under curriculum requirements.
- (f) Fine Arts electives include art/art history, conservatory or theatre.
- (g) Social and Behavioral Science electives include criminal justice, economics, geography, history, political science, psychology, social science or sociology.

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 3.50 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.

Requirements for Graduation

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 458R, ECE 460, ECE 461, ECE 466, ECE 474, 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-mail <mailto:csee@umkc.edu>

Five Year Program Sample

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 (24 credit hours) 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 352.

Computer Science Minor		
Hours		
COMP-SCI 101	Problem Solving & Programming I	3
COMP-SCI 191	Discrete Structures I	3
COMP-SCI 201	Problem Solving and Programming II	3
COMP-SCI 281	Introduction to Computer Architecture	3
COMP-SCI 291	Discrete Structures II	3
COMP-SCI 352	Data Structures and Algorithms	3
COMP-SCI 4XX	Two Senior Level Electives	6
Total Credit Hour Requirement		24

Program Description: Bachelor of Information

Technology

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 by ABET, see www.abet.org. Students wishing to do graduate work in Computer Science should work towards the Bachelor of Science degree in Computer Science. Please contact our department for more info, please call (816) 235-1193, or e-mail to <mailto:csee@umkc.edu>

Educational Objectives

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.

Career Implications

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.

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.

Academic Load

For a student to complete the degree in four years, it is imperative that the student takes about 15 credit hours worth of coursework each semester (not including summer). The 4-year program samples shown for each degree below are meant as a planning guideline for students. For a student wanting to complete **both an undergraduate degree and a graduate degree** in five years should consult the appropriate section on our Fast Track Program.

Academic Standing

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 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.

Repeating a Course

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.

Auditing a Course

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.

Academic Dishonesty

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 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.

Petitioning

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.

Graduation Requirement

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 coursework is from an ABET accredited degree program in either computing or engineering or if the coursework is part of a transfer articulation agreement for which the student received at least a C (2.0).
7. The final 30 consecutive credit hours of course work 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 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.

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 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.

Department Description

The CSEE Department has about 28 full-time faculty members, including a Curators' professor, 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:

- Black & Veatch
- Burns & McDonnell
- Cerner
- Garmin
- General Electric
- Honeywell
- Sprint Nextel

most of which are headquartered in the Kansas City area. Within UMKC, there are ongoing collaborations with most 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 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-signals 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).

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 645 students were enrolled in the CSEE department in the Fall 2008 semester: 275 at the undergraduate level (all degree programs), 335 at the masters level (both CS and EE), and 35 students participated in UMKC's Interdisciplinary Ph.D. program through a discipline in CSEE.

CSEE Graduate Academic Regulations

For smooth completion of the degree program, a student must follow various academic regulations as described below:

Program of Study

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.

Advising

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.

Academic Loads

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.

Enrollment Policies

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.

Academic Standing

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.

Academic Dishonesty

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.

Petitions

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.

Ineligibility

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.

Auditing a Course

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

Student Learning Outcomes

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.

Admission Requirements

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:
 - o Problem Solving and Programming I (COMP-SCI 101)
 - o Problem Solving and Programming II (COMP-SCI 201)
 - o Introduction to Computer Architecture (COMP-SCI 281)
 - o Discrete Structures I and II (COMP-SCI 191, 291)
 - o Data Structures and Algorithms (COMP-SCI 352)
 - o Applied Probability (COMP-SCI 394R)
 - o Introduction to Operating Systems (COMP-SCI 431)
 - o Advanced Computer Architecture (COMP-SCI 481)
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. A 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.
6. Prospective students who want to be considered for acceptance to the M.S. degree program should submit the following documents:
 - o Transcripts for all graduate and undergraduate work completed so far; syllabi of these courses (or a URL to these) is strongly suggested.
 - o Copies of academic and scholarly diplomas received.
 - o 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.

Starting the Program

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. 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.

Core Requirements

All students are required to complete a core curriculum of COMP-SCI 5592 and two courses selected from COMP-SCI 5520, COMP-SCI 5551 or COMP-SCI 5566.

Emphasis Areas

All students are required to complete courses in an emphasis area. Students following the thesis option must complete at least nine credit hours from 5500/5600-level courses in this area. Students following the non-thesis option must complete at least 12 credit hours from 5500/5600-level courses in this area. The approved emphasis areas and associated courses are:

- **Bioinformatics**
COMP-SCI 5560, COMP-SCI 5566, COMP-SCI 5567, COMP-SCI 5570, COMP-SCI 5590 CI and others.
- **Networking and Telecommunications**
COMP-SCI 5511, COMP-SCI 5513, COMP-SCI 5514, COMP-SCI 5517, COMP-SCI 5520, COMP-SCI 5521, COMP-SCI 5522, COMP-SCI 5526 and others.
- **Software Engineering and Systems**
COMP-SCI 5531, COMP-SCI 5551, COMP-SCI 5552, COMP-SCI 5554, COMP-SCI 5570, COMP-SCI 5572, COMP-SCI 5670 and others.

Secondary Concentrations

All students are required to complete at least two 5500/5600-level courses in a concentration different from their emphasis area. Pre-approved concentrations and associated courses are:

- Bioinformatics
COMP-SCI 5560, 5566, 5567, 5570, 5590 CI and others.
- Networking and Telecommunications
COMP-SCI 5511, 5513, 5514, 5517, 5520, 5521, 5522, 5526 and others.
- Software Engineering and Systems
COMP-SCI 5531, 5551, 5552, 5554, 5570, 5572, 5670 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 seek permission 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.

Degree Requirements

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:

1. Complete a minimum of 27 hours of approved coursework for graduate credit with a cumulative GPA of at least 3.0.
2. Additionally, complete a minimum of three hours COMP-SCI 5599 Research and Thesis.
3. Complete a minimum of nine hours in the emphasis area.
4. Contact a thesis adviser in the semester in which the student completes 12 hours of graduate work.
5. 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.
6. Pass a general oral examination which may cover all the work covered in the student's graduate program.
7. Satisfy all common requirements (see below).

Specific Requirements for the Non-Thesis Option:

1. Complete a minimum of 36 hours of approved coursework for graduate credit with a cumulative GPA of at least 3.0.
2. Complete a minimum of 12 hours in the emphasis area.
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 Options:

1. Satisfy the core requirement, presently COMP-SCI 5592 and two of the three courses: COMP-SCI 5520, COMP-SCI 5551, and COMP-SCI 5566.
2. Complete a minimum of six hours in the secondary 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 nine credit hours total from any transferred coursework taken outside the CSEE department and from COMP-SCI 411, COMP-SCI 421, COMP-SCI 423, COMP-SCI 457, COMP-SCI 458, COMP-SCI 461, (only one of COMP-SCI 470 and COMP-SCI 471), COMP-SCI 493 and COMP-SCI 494R can be used to satisfy degree requirements; these courses cannot be identical to courses already taken for a prior degree and must be completed with a 3.0 or higher GPA for each course used. Other 300- and 400-level courses do not count toward fulfillment of degree requirements.

5. No more than three hours of COMP-SCI 5597 (directed readings) can be used to satisfy degree requirements. All COMP-SCI 5597 courses to be applied to the master of science in computer science degree requirements must be approved by the SCE Master's Committee at least six weeks before classes begin.
6. 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 nine hours.

Thesis Option

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 three hours 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.

Directed Readings Courses

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.

Fast Track (B.S./C.S)

See the Fast Track section under Computer Science in the undergraduate catalog for information about the [Fast Track Computer Science Program](#).

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](#).

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/sqs/financial.asp for additional information.

Master of Science in Electrical Engineering

Student Learning Outcomes

Upon graduating, students will have demonstrated that they can apply the core technologies from their chosen emphasis 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.

Admission Requirements

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. 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.

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 12 hours 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.

Starting the Program

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 worksheet 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.

Degree Requirements

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 the power engineering focus area are listed separately.

Specific Requirements for the Thesis Option:

1. Complete a minimum of three hours and a maximum of six hours E&C-ENGR 5599 Research.
2. Pass a final examination, which is an oral defense of the thesis.
3. Satisfy all common requirements (see below).

Specific Requirements for the Non-Thesis Option:

1. The following courses do not count toward this degree option: E&C-ENGR 5599, E&C-ENGR 5600 or E&C-ENGR 5690.
2. Satisfy all common requirements (see below).

Common Requirements and Limitations for both Thesis Option and Non-Thesis Option:

(Note that the specific requirements for the power engineering focus area are listed separately.)

1. At least 30 credit hours of 400-, 5500- or 5600-level coursework, completed within the past six years.
2. At least 21 hours of 5500/5600-level coursework.
3. At least 24 hours of E&C-ENGR course work, see also below.
4. At least one three-hour course, at the 5500/5600-level, in each of three different concentration areas, with at least two of the areas in E&C-ENGR; a list concentration areas with their courses is provided below.
5. Up to three credit hours of E&C-ENGR 5597 Directed Readings and E&C-ENGR 5697 Advanced Directed Readings, are allowed.
6. No more than six credit hours of transferable graduate coursework from another institution or from other degree programs within UMKC, as approved by the student's graduate faculty adviser.
7. The courses E&C-ENGR 402WI, E&C-ENGR 403WI, E&C-ENGR 493R, E&C-ENGR 494R (or their equivalents) do not count for graduate credit.

Specific Requirements and Limitations for the Electric Power Focus:

1. At least 30 credit hours of 400-, 5500- or 5600-level coursework, completed within the past six years.
2. At least 21 hours of 5500/5600-level coursework.
3. At least 18 hours of E&C-ENGR course work, with at least 12 hours of E&C-ENGR course work in the power concentration.
4. At least one three-hour course, at the 5500/5600-level, in each of three different concentration areas, with at least two of the areas in E&C-ENGR.
5. Up to three hours of E&C-ENGR 5597 Directed Readings and E&C-ENGR 5697 Advanced Directed Readings, is allowed.
6. The following courses can be used to satisfy the power focus requirements. (Note: the course E&C-ENGR 5567 is currently being developed and will be added to the catalog as soon as it has been approved.) ECE460, E&C-ENGR 466, E&C-ENGR 468, E&C-ENGR 470, E&C-ENGR 472, E&C-ENGR 5536, E&C-ENGR 5567, E&C-ENGR 5568, E&C-ENGR 5590AE, E&C-ENGR 5590MC, E&C-ENGR 5660, E&C-ENGR 5664, E&C-ENGR 5670, E&C-ENGR 5672, BA 5519 and BA 5532.
7. The following courses do not count toward this degree option: E&C-ENGR 5599, E&C-ENGR 5600 or E&C-ENGR 5690.
8. No more than six (6) credit hours of transferable graduate coursework from another institution or from other degree programs within UMKC, as approved by the student's graduate faculty adviser.
9. The courses E&C-ENGR 402WI, E&C-ENGR 403, E&C-ENGR 461, E&C-ENGR 493R, E&C-ENGR 494R (or their equivalents) do not count for graduate credit.

Concentration Areas

The faculty provide research and concentration area coursework in:

- Communication and information processing (signal and image processing, electro-optical systems, neural networks).
- Computers and digital systems (computer arithmetic, computer architecture and computer and digital systems).
- Wireless communications (system design, propagation modeling, antenna design, wireless networking, electromagnetic modeling).
- Power (electromechanical conversion I, electromechanical conversion II, power system I, power system II, electrical power distribution systems, reliability of electric power systems, economics of power systems, power systems stability, lightning and switching surges in power systems, application of power electronics in power systems, power systems relaying, direct current power systems, contracts and law for engineers and microcomputer control of power generation systems).
- Networking and Telecommunications (design, protocols, routing, security, teletraffic, modeling and analysis, performance modeling).

Thesis Option

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.

Directed Readings

Up to three hours of E&C-ENGR 5597 Directed Readings and 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.

Fast Track (B.S/C.S)

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

Dental School

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/>

Mailing Address

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School of Dentistry

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Associate Dean for Academic Affairs:

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Assistant Dean for Business Affairs:

Edgar J. Ellyson  

Assistant Dean for Clinical Programs, Information Technology,
Patient and Facilities Management:

Harvey C. Eplee  

Assistant Dean for Student Programs:

John W. Killip  

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 - Periodontics
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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 radiology, 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

The School of Dentistry is a center for dental education, research and service. The goals of the school are to:

- Prepare graduates in dentistry and dental hygiene to deliver patient care with a scientific basis and a caring manner.
- Instill a professional and societal responsibility in all students that will prepare them to become community leaders and address the public need.
- Provide practitioners and educators with continuing education opportunities to learn recent advances in dentistry and related fields.
- Contribute to the advancement of dentistry through basic, applied and educational research.
- Provide advanced education programs in dental research, education, general dentistry and dental specialties.
- Be a resource in oral health care for the public and community leaders.

Facilities

Clinic

Occupies 16,000 square feet; 279 fully equipped dental operatories; approximately 58,000 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. 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

Part of the university-wide library system: approximately 26,000-volume collection; more than 365 periodical subscriptions; extensive reference services; instructional resource library, extensively equipped for independent study with a variety of audiovisual equipment and 37 networked computers; Postgraduate Dental Career Opportunity Center provides information on dental practices for sale, and those in need of associates, advanced educational programs, armed services opportunities, dental hygiene and dental educational opportunities.

Hospital Affiliations

Teaching relationships exist with Kansas City Veterans Affairs Hospital, Children's Mercy Hospital, Saint Luke's Hospital, Truman Medical Center Hospital Hill, Truman Medical Center Lakewood, Richard Cabot Medical Clinic, Samuel Rodgers Community Health Center, Cabot Clinic 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, and the advanced dental and dental hygiene educational programs all have strong research components. The intent of these advanced 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. Grants from external funding currently amount to more than \$8 million per year. Many of the researchers who have obtained these grants serve as mentors for dental students participating in the Dental Summer Scholars Program. In this selective program, a limited number of students gain an eight-week research experience in the mentor's area of research interest.

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, Dental Care With A Heart program (dental care for homeless and/or economically needy persons), Northeast Missouri Area Health Education Center Dental Clinic, Theodosia, Mo., project (serving the underserved in rural settings), Special Olympics Oral Health Screening project (providing oral health assessments to mentally or developmentally disabled persons), and international programs in Honduras, Nicaragua and Guatemala.

Academic/Student Support Services

Academic Monitor

The academic monitor of 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, a part-time job 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 does 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.

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:
 - o Independent study for a number of weeks followed by an examination.
 - o Remedial summer laboratory work followed by a laboratory examination.
 - o 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 Affairs 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:
 1. That 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: 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.
 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.
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:
 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:
 - 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.

2. 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 I.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:
 1. 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.
 2. While on probation, a graduate student must achieve a 3.0 term GPA to enroll for the ensuing term.
 3. 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: *
 1. 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.
 2. While on probation, a graduate student must achieve a 3.0 graduate dental certificate specialty area GPA to enroll for the ensuing term.
 3. 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

Division of Dental Hygiene

[Dental School](#), Room 415
(816) 235-2050

Director, Division of Dental Hygiene:
Kimberly S. Bray, R.D.H., M.S.

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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 written examination, the National Dental Hygiene Board Examination. This examination is administered to all dental hygiene students in the country approximately six weeks prior to their graduation. 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 Kansas City Association of Dental Research. 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

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 service 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.

The Dr. James E. Herbertson Memorial Scholarship is presented annually to a student who has excelled in the dental hygiene program.

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.

Academic Standards

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 [Graduate Catalog](#).

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 basic preparation 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	\$1,200
Professional association fee	\$ 45

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, contact the division director.

Bachelor of Science in Dental Hygiene

Student Learning Outcomes

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 these 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.
- Treatment planning and case presentation for persons of all ages/stages of life.
- 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.
- 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 Basic Preparation 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.

General Education Requirements

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:

	(9 hours)	Hours
Communicating		
ENGLISH 110	English I	3
ENGLISH 225	English II	3
COMM-ST 110	Effective Speaking	3
Mathematics	(3 hours)	
MATH 110	College Algebra	3
Higher-order Thinking, Managing Information and Valuing	(6 hours)	6
	(Choose at least two different fields from the following:)	
PHILOS 210 or 222		
HISTORY 201, 202, 206 or 208		
ANTHRO 102 or 103		
COMP-SCI 100 or above		
MATH 160 or above		
Humanities and Fine Arts		6
	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.	
Social and Behavioral Sciences	(9 hours)	
	General Sociology	3
	General Psychology	3
	Constitution Course	3
Biological and Physical Sciences	(13-19 hours)	
	Chemistry	4-6
	(Must be equivalent to UMKC CHEM 211)	
	Microbiology	3-5
	Anatomy	3-4
	Physiology	3-4
	(If taking a combined Anatomy & Physiology course, it must be a sequence of two semesters.)	
Electives	(10-15 hours)	10-15
	Computer application courses are highly recommended.	

Program Requirements

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		Hours
BMS 3065	Head and Neck Anatomy	2
DENT-HYG 3000	Dental Morphology and Occlusion	2
DENT-HYG 3020	Dental Radiology	2
DENT-HYG 3080	Introduction to the Practice of Dental Hygiene	4
DENT-HYG 3080L	Pre-clinical Dental Hygiene	2
DENT-HYG 3320	Oral Health Education	2
LS-PHYS 3070	Oral Physiology	3
Total		17
Spring Semester		
DENT-HYG 3210	Applied Biochemistry	2
DENT-HYG 3200	Histology and Pathology	3
DENT-HYG 3220	Dental Biomaterials	2
DENT-HYG 3280C	Dental Hygiene Clinic I	3
DENT-HYG 3285	Seminar in Dental Hygiene I	2
DENT-HYG 3260	Principles of Periodontics	3
Total		16

Second Year

Summer Term		Hours
DENT-HYG 4020	Local Anesthesia	3
DENT-HYG 4060C	Dental Hygiene Clinic II	2
DENT-HYG 4065	Seminar in Dental Hygiene II	1
DENT-HYG 3340	Principles of Public Health	2
Total		8
Fall Semester		
DENT-HYG 4050	Periodontics II	1
DENT-HYG 4080	Introduction to Research Design	2
DENT-HYG 4100	Pharmacology	3
LSBIOC 3240	Applied Nutrition	3
DENT-HYG 4120C	Dental Hygiene Clinic III	4
DENT-HYG 4120	Seminar in Dental Hygiene III	2
DENT-HYG 4220	Community Oral Health Field Exp.	2
DENT-HYG 4240	Ethics	1
Total		18
Spring Semester		
DENT-HYG 4210	Practice Management & Juris	3
DENT-HYG 4220	Community Oral Health Field Exp.	2
DENT-HYG 4260	Senior Seminar	2
DENT-HYG 4260C	Dental Hygiene Clinic IV	4
Electives (Select one)		
DENT-HYG 4380	Research Practicum	2-4
DENT-HYG 4340	Community Dentistry Practicum	2-4
DENT-HYG 4320	Special Patient Care Practicum	2-4
DENT-HYG 4350	Perio Co-therapy Practicum	1-4
DENT-HYG 4660	Independent Study	1-4
DENT-HYG 4330	Oncology Practicum	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.

Admission to the Degree Completion Program

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.
4. Complete college 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

DENT-HYG 5595*	Scientific Writing	1
DENT-HYG 4020*	Local Anesthesia and Pain Control	2
DENT-HYG 4040*	Research and Instruction	1-2
DENT-HYG 4500*	Seminar in Health Care Issues	1-2
DENT-HYG 4620*	Principles of Dental Hygiene Education	3
DENT-HYG 4080*	Introduction to Research Design	2
DENT-HYG 4625	Dental Hygiene Administration	3
DENT-HYG 4600*	Advanced Clinic Concepts and Practicum	2-4
DENT-HYG 4640	Student Teaching and Conference I	2-4
DENT-HYG 4680*	Dental Hygiene Clinical Instruction I	2-4
DENT-HYG 4685	Dental Hygiene Clinical Instruction II	2-4
DENT-HYG 4650	Student Teaching and Conference II	2-4
DENT-HYG 4630	Practicum in Dental Hygiene Administration	2-4
DENT-HYG 4635	Practicum in Clinical Supervision	2-4
DENT-HYG 4380	Research Practicum	2-4
DENT-HYG 4660	Independent Study	2-4
DENT-HYG 4340	Community Dentistry Practicum	2-4
DENT-HYG 4350	Periodontics Co-Therapy Practicum	3
DENT-HYG 4330	Oncology Practicum	2-4
DENT-HYG 4320	Special Patient Care Practicum	3

* 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

Doctor of Dental Surgery Program

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 - GPA/College Hour Minimums
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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. Other expectations may be considered on an individual basis.

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 100 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 college 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).

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, biochemistry, business, social/behavioral sciences (such as psychology), communication skills, computer science, the humanities and applied arts (such as sculpting, jewelry making, 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 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 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 application, notification of acceptance is made by mail. The applicant has 45 days from the date of an acceptance letter to make a required nonrefundable \$200 deposit. If notification of acceptance is made after Jan. 1, the candidate must submit the deposit within 30 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 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 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 while being continuously enrolled in full-time course loads. In the second stage, Provisional Reserved Admission Program Students apply for full Reserved Admission status at the end of their undergraduate sophomore 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.

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 \$131,371. 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.

First Year (Fall and Spring Semesters)

Books, Equipment and Supplies	\$7,710
Educational Fees (Resident)	\$23,689
First-Year Total	\$31,399

Second Year (Fall and Spring Semesters)

Books, Equipment and Supplies	\$6,257
Educational Fees (Resident)	\$23,689
Second-Year Total	\$29,946

Third Year (one 13-week Summer term plus Fall and Spring Semesters)

Books, Equipment and Supplies	\$5,512
Educational Fees (Resident)	\$29,612
Third-Year Total	\$35,124

Fourth Year (one 13-week Summer term plus Fall and Spring Semesters)

Books, Equipment and Supplies	\$5,290
Educational Fees (Resident)	\$29,612
Fourth-Year Total	\$34,902

Four-Year Total	\$131,371	Non-Non-resident students are assessed an additional \$11,761 each fall and spring semester and \$5,880 for each of the two summer terms.
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Agreements are in place for residents of Kansas, Arkansas, New Mexico and Hawaii to receive waivers of the non-resident fees.

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.

Doctor of Dental Surgery

Student Learning Outcomes

1. Apply the fundamental principles of the biomedical and behavioral sciences as they relate to the promotion and provision of oral health care. (CODA 2-12-16; ADEA Domain 3)
2. Apply legal, ethical and regulatory principles to the provision of oral health care, including practice management. (CODA 2-19-21; ADEA Domain 2, 3 & 5)
3. Apply interpersonal and communication skills to empathetically and effectively care for diverse patient populations and function in the health care environment. (CODA 2-17, 2-19; ADEA Domain 3 & 4).
4. Apply critical thinking and problem solving skills to provide evidence-based patient-centered care. (CODA 2-23; ADEA Domain 1).
5. Evaluate various models of oral health management and care delivery. (CODA 2-18; ADEA Domain 5).
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. (CODA 2-17, 2-19; ADEA Domain 3 & 4)
7. Manage medical emergencies and complications that may occur during dental treatment. (CODA 2-25, 2-27; ADEA Domain 6).
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. (CODA 2-25; ADEA Domain 6).
9. Demonstrate competence in providing oral health care within the scope of general dentistry for children, adolescents, adults, and special needs patients. (CODA 2-25; ADEA Domain 6). This includes:
 - o Perform a complete dental examination to arrive at a diagnosis of the patient's oral condition/s.
 - o Develop, present and implement an integrated treatment plan to address a patient's oral health needs.
 - o Prevent, identify and manage periodontal conditions.
 - o Prevent, identify and manage pulpal and periradicular conditions.
 - o Identify and manage patients with oral surgical needs.
 - o Identify and manage malocclusions.
 - o Manage restorative procedures for single defective teeth, or to restore function in patients with partial or complete edentulism.
 - o 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. (CODA 2-22; ADEA Domain 6).

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

Fall Semester		Hours
BIOLOGY 203	Cell Biology	3.0
BMS 9300	Human Gross Anatomy I	5.0
BMS 9308	Histology I	2.5
DENT 6306	Introduction to Ethics & Professionalism	1.0
DENT 6310C	Clinical Assisting	3.0
DENT 6316	Dental Morphology (Lec/Lab)	3.0
DENT 6328	Clinical Decision Making	1.0
LS-BIOC 304	Biochemistry & Nutrition	4.0
Total Hours		22.5

Spring Semester		Hours
BMS 9301	Human Gross Anatomy II	5.0
DENT 6305	Operative Dent I Lecture	1.0
DENT 6305L	Operative Dent I Lab.	2.0
DENT 6314C	Intro. Oral Diagnosis	3.0
DENT 6317	Dental Occlusion	3.0
DENT 6335	Applied Neuroscience	2.0
DENT 6350	Histopathology	2.5
LS-PHYS 401	Physiology Lecture	5.0
Total Hours		23.5

Second Year

Fall Semester		Hours
DENT 6315C	Preventive Periodontics	3.0
DENT 6410	Operative Dent II Lecture	1.0
DENT 6410L	Operative Dent II Lab	2.0
DENT 6412	Anesthesiology I Lecture	1.0
DENT 6414	Pathology I Lecture	4.0
DENT 6416	Comp. Removable Pros I Lec.	1.0
DENT 6416L	Comp. Removable Pros I Lab.	2.0
DENT 6422	Fixed Prosthodontics I Lec.	1.0
DENT 6422L	Fixed Prosthodontics I Lab	2.0
DENT 6426	Oral Radiology	2.0
DENT 6435	Endodontics I Lecture	1.0
DENT 6436	Ortho: Growth and Development	1.0
LS-MCRB 4180	Microbiology	4.0
Total Hours		25.0

Spring Semester		Hours
DENT 6411	Operative Dent. III	1.0

DENT 6415	Pathology II	2.0
DENT 6417	Rem. Partial Prosthodontics	3.0
DENT 6420	Perio. I	2.0
DENT 6423	Fixed Pros. II Lecture	1.0
DENT 6423L	Fixed Pros. II Lab.	2.0
DENT 6431	Ped. Dent. I Lecture	1.0
DENT 6439	Med Emergencies	1.0
DENT 6440	Oral Surgery I	1.0
DENT 6442	Endodontics II Lecture	1.0
DENT 6442L	Endodontics II Lab	2.0
DENT 6524	Prin. Med/Phys. Diagnosis	2.0
DENT 6526	Ortho I Lecture	1.0
DENT 6526L	Ortho I Lab	2.0
DENT 6556	Radiographic Interpretation	0.5
DENT 6564	Dental Pharmacology	2.0
Total Hours		24.5

Third Year

Summer Semester		Hours
DENT 6537	Oral Oncology	0.5
DENT 6565	Bridge Course	2.0
CLINIC		8.0
Total Hours		10.5

Fall Semester		Hours
DENT 6312	Dental Behavioral Science I	1.0
DENT 6318	Dental Biomaterials Lecture	1.0
DENT 6424	Oral DX and Oral Medicine	2.0
DENT 6502	Grand Rounds I	1.0
DENT 6516	Periodontics III	1.0
DENT 6521	Oral Surgery II	1.0
DENT 6538	Orthodontics II	1.0
DENT 6441C	Treatment Planning	2.0
DENT 6460C	Review of Pre-Clinical Dentistry	2.0
CLINIC		9.0
Total Hours		21.0

Spring Semester		Hours
DENT 6522	Oral Surgery III	1.0
DENT 6527	Therapeutics	2.0
DENT 6534	Advanced Prosthodontics	1.0
DENT 6559	Dx & Mgt. Orofacial Pain	1.0
DENT 6595	Implant Dentistry	1.0
DENT 6602	Grand Rounds II	1.0
DENT 6633	Intro. Public Dental Health	1.0
DENT 6634	Extramural Clinical Rotations I	1.0
CLINIC		15.0
Total Hours		24.0

Fourth Year

Summer Semester		Hours
DENT 6558	Radiographic Interpretation II	0.5
DENT 6650	Applied Ethics	0.5
CLINIC		9.0
Total Hours		10.0

Fall Semester		Hours
DENT 6429	Dent Behavioral Science II	1.0
DENT 6514	Pathology III	1.0
DENT 6603	Grand Rounds III	1.0
DENT 6610	Anxiety and Pain Control	1.0
DENT 6613	Perio. Treatment Planning	1.0
DENT 6614	Dent for Special Patient	2.0
DENT 6617	Pediatric Dent. Seminar	0.5

DENT 6630	Practice Management I	1.0
DENT 6635	Extramural Clinical Rotations II	1.0
CLINIC		10.0
Total Hours		19.5

Spring Semester		Hours
DENT 6600	Rev. Clinical Dent.	1.0
DENT 6604	Grand Rounds IV	1.0
DENT 6605	Review of Clinical Dentistry II	1.0
DENT 6618	Jurisprudence	1.0
DENT 6631	Practice Management II	1.0
CLINIC		16.0
Total Hours		21.0

Graduation Requirements

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 for professional conduct.

Advanced Education Programs

Advanced Education Programs

Chair, Advanced Education Committee:
Mary P. Walker, D.D.S., Ph.D.

The School of Dentistry offers advanced education curricula leading to graduate certificates in each of six clinical dental specialty areas (endodontics, oral and maxillofacial radiology, oral and maxillofacial surgery, orthodontics and dentofacial orthopedics, pediatric dentistry, 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 Information
- Financial Assistance
- Enrollment Fees
- Academic Standards/Procedures: Advanced Education/Graduate Students
- Students in Cooperative Programs
- Dental Graduate Certificate Programs
 - Application Deadline
 - Requirements and Procedure for Admission
 - Graduate Certificate: Advanced Education in General Dentistry
 - Program Description
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 - Program Requirements
 - Graduate Certificate: Endodontics
 - Program Description
 - Student Learning Outcomes
 - Program Requirements
 - Graduate Certificate: Oral and Maxillofacial Radiology

- 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

Applicants to any advanced education program of the School of Dentistry must submit all of the following information:

1. Curriculum vitae.
2. Original essay of one page describing their professional goals.
3. Reference (by a minimum of three individuals capable of evaluating the academic potential of the candidates for advanced education program study);
4. Transcripts (from undergraduate, dental, graduate and professional schools attended).
5. National board scores.
6. Class rank in dental school (if applicable).
7. UMKC Application fee of \$45.00 domestic, \$50.00 international

Additional information, as identified below, must be supplied by international student applicants:

1. TOEFL scores (minimum of 550 on the paper test or 213 on the computer based version) or a demonstrated proficiency in the English language (if English is not the primary language of the applicant).
2. Financial statement (guarantee of full financial support or of sufficient financial resources *for the entire cost of the program, including living expenses*).

Advanced education programs (except where indicated) accept the UMKC Application Form. International applicants must use the UMKC International Application for Admission. These forms are available from the Office of Student Programs of the School of Dentistry or at the www.umkc.edu/dentistry/assets/forms/advancededucation.htm Web site. The application and required supporting documents should be sent to the chairman of the Advanced Education Committee, c/o Office of Student Programs, at the address at the beginning of this section.

In addition, the programs in advanced education in general dentistry and oral and maxillofacial surgery also accept the Postdoctoral Application Support Services (PASS) application. Information on the application support service and application form is available from the Office of Student Programs of the School of Dentistry at the address at the beginning of this section, at <http://www.adea.org/>, and at the admissions phone numbers at the beginning of this section. All required PASS materials should be submitted with the completed PASS application to:

PASS
 1625 Massachusetts Ave. N.W.
 Suite 101
 Washington, D.C. 20036

The remainder of the information required by the advanced education programs should be sent to the Office of Student Programs.

General questions concerning advanced education programs should be directed to the chairman of the Advanced Education

Committee at the mailing address at the beginning of this section or at (816) 235-2825. 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.

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 and Oral Radiology.

Financial Assistance

Eligible advanced education students (i.e., those who have earned a D.D.S. or D.M.D. degree from a Commission on Dental Accreditation or Canadian Dental Accrediting Commission accredited program or who hold valid licenses to practice dentistry in one or more states of the United States) in the graduate certificate program of endodontics, general dentistry, oral and maxillofacial radiology, oral and maxillofacial surgery, orthodontics and dentofacial orthopedics, pediatric dentistry and periodontics receive an annual financial assistance based on patient treatment fees.

Eligible graduate students in general dentistry, orthodontics and dentofacial orthopedics, periodontics and endodontics, participate in an incentive-based clinical income sharing program; 33 percent of the net fees *collected* for clinical treatment provided by a resident in one of these programs will be paid to the student. Net *collected* clinical fees are defined as gross clinical fees *collected* less scheduled laboratory fees incurred as a part of the treatment procedures and less any waivers granted (except those authorized for payment to the resident by the assistant dean for clinical programs).

Financial aid for advanced education students is also available in the form of a limited number of Chancellor's Non-Resident Awards or graduate research assistantships. The Chancellor's Non-Resident Award provides for the non-resident tuition only (i.e., the difference between Missouri resident and nonresident fees), while the graduate research assistantship includes a stipend plus an award equivalent to the basic education fees (at regular graduate student fee rate and *not* at the graduate dental student fee rate) for 6 hours of graduate credit for both fall and spring semesters. Both categories of awards are made on a competitive basis, with quality of academic record as a major criterion. History of research experience or potential for research in the graduate program also serves to identify candidates for the graduate research assistantship.

Other forms of financial aid may be available from federal loan programs (depending on whether or not lending limits have been reached) or from other funding agencies.

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

\$2,731.20	
Educational Fee (Resident)	
Educational Fee (Non-resident)	\$5,432.50
Activity/Building/Computing/Health Fees	\$112.17

Fall/Spring Semester (Each)

Educational Fee (Resident)	\$ 5,462.40
Educational Fee (Non-resident)	\$10,905.00
Activity/Building/Computing/Health Fees	\$224.33

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 Radiology
- 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.

Application Deadline

Application deadline dates for graduate dental certificate programs are as follows:

Advanced Education in General Dentistry	October 1	<p>This deadline date for receipt of applications at the school This deadline date for receipt of applications at the school is one year before the anticipated enrollment in the program.</p> <p>Graduate dental certificate programs in endodontics, orthodontics and dentofacial orthopedics, oral and maxillofacial radiology and periodontics, require the UMKC application and the associated supplemental information that was previously indicated. This application material should be sent to:</p> <p>Chairman, Advanced Education Committee c/o Office of Student Programs UMKC School of Dentistry 650 E. 25th St. Kansas City, MO 64108-2795</p>
Endodontics	August 15	
Oral and Maxillofacial Radiology	January 1	
Oral and Maxillofacial Surgery	August 15	
Orthodontics	September 5	
Periodontics	August 15	

The remaining graduate dental certificate programs (i.e., advanced education in general dentistry, oral and maxillofacial surgery, require either a UMKC application (and associated supplemental information) or application through the Postdoctoral Application Support Services (PASS). A completed PASS application and other materials required by the service should be sent to the address given on the application or as provided earlier. **The PASS application should not be sent to UMKC.** Be aware that approximately three weeks is 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.

The graduate certificate programs in oral and maxillofacial surgery, orthodontics and dentofacial orthopedics participate in the National Matching Services (MATCH) process. Candidates to these programs must also submit to MATCH completed Applicant Agreement and Rank Order List forms by the deadline dates established by MATCH. 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 and pediatric dentistry programs.

Necessary forms to participate in the MATCH process may be obtained from:

National Matching Services
595 Bay Street
Suite 300
Toronto, Ontario M5G 2C2

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 letters of evaluation and curriculum vitae (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). **Graduate of foreign dental schools, however, are eligible to apply for admission only to the certificate program in oral and maxillofacial radiology.**

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

Faculty:

Dean A. Elledge, D.D.S., M.S., Frank B. Gardner, D.D.S., Sam E. Hayes, D.D.S., David L. Moore, D.D.S., M.D., David J. Thein, D.D.S., M.S.D., Gregory A. Thompson, D.D.S.

The advanced education in general dentistry program is a 12-month program beginning in July for eight residents and is designed to refine and advance knowledge and clinical competency and proficiency in the practice of 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 general dentistry will be awarded.

An optional second year of residency is offered for two students. 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 \$750 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, and/or less any fee waivers granted (see also Financial Assistance section)

Applications

Application to this program is either through UMKC or through the Postdoctoral Application Support Services (PASS). Use the link <http://dentistry.umkc.edu/assets/forms/advancededucation2.asp> 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

Faculty:

James A. Dryden, D.D.S., M.S., Diplomate, American Board of Endodontics, Ron Riley, D.D.S., Diplomate, American Board of Endodontics; Charles Lee, D.D.S., Felix G. Quiason, D.D.S., Edward W. Grimes, D.D.S., Diplomate, American Board of Endodontics; Jim Tinnan, D.D.S., Diplomate, American Board of Endodontics; Robert H. Altomare, D.D.S., Barton W. Putnam, D.D.S.; Dan Lavitt, D.D.S., M.S., Diplomate, American Board of Endodontics

Program Overview

The endodontics 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 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 American Dental Association or the Canadian Dental Association.

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

Applicants must have successfully completed Part I of the National Dental Board at the time of application and Part II by the time of matriculation. Applicants must have demonstrated English reading, writing and speaking proficiency and a minimum score of 550 on the TOEFL examination or 213 on the computer version of the TOEFL examination. Applications must be submitted using applications furnished by the Office of Student Programs, UMKC School of Dentistry. Use the link <http://dentistry.umkc.edu/assets/forms/advancededucation2.asp> to receive a brochure describing the program and application materials. The program deadline date for receipt of all completed application materials is Aug. 15.

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 and availability of funds.

Income from Endodontics 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. Generally, this amounts to between \$20,000-\$30,000 additional income per year.

Extramural Employment

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 \$1,000 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. Estimated lease expenses are approximately \$6,400 for the 24-month program, \$1,600 per each fall and spring semesters. Currently, there are no charges for leased instruments for the summer semesters.

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 http://dentistry.umkc.edu/bec_patient/endodontics.htm for a 360 degree photo tour. Also please see http://dentistry.umkc.edu/bec_patient/stowers.htm 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

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 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) 235-2749 or kulildj@umkc.edu.

Program Description: Oral and Maxillofacial Radiology

Director:

Jerald O. Katz, D.M.D., M.S., Diplomate, American Board of Oral and Maxillofacial Radiology

Faculty:

Vandana Kumar, B.S.D., M.S., Diplomate, American Board of Oral and Maxillofacial Radiology, Richard Massoth, Ph.D.

Stipend

Students may be eligible for a stipend. Contact program director for details.

The 24-month program begins July 1 and leads to certification in oral and maxillofacial radiology. The 30-month program leads to certification in oral and maxillofacial radiology and a master of science degree in oral biology. A separate application process is required for admission into the master's program.

The curriculum is designed so that at the completion of the program, the graduate will be eligible to take the American Board of Oral and Maxillofacial Radiology exam. If accepted into the master of science in oral biology program, additional courses and original research are required. On satisfactory completion of a thesis and the required courses, the master of science degree will be awarded.

One student is accepted into the program per year. Applicants with a D.D.S./D.M.D. degree from a school accredited by the American Dental Association or Canadian Dental Association are preferred. Graduates of dental programs not so accredited will be considered on a case-by-case basis.

Point of Contact

To request further information, please contact the Office of Student Programs at (816) 235-2080 or the program director, Dr. Jerald Katz, at (816) 235-2138 or katzj@umkc.edu.

Program Description: Oral and Maxillofacial Surgery

Director:
Brett L. Ferguson, D.D.S., Diplomate, American Board of Oral and Maxillofacial Surgery (ABOMS)

Faculty:
John Bellome, D.D.S., Diplomate, ABOMS; Matthew Hlavacek, D.D.S., M.D., Diplomate, ABOMS; Perrin S. Jungbluth, D.D.S., M.D., Diplomate; Ronald McAmis, D.D.S., Diplomate, ABOMS; Steve Prstovich, D.D.S., M.D., Diplomate, ABOMS; Rudane E. Shultz, D.D.S., Diplomate, ABOMS

Stipend

First Year	\$44,000	Second Year	\$45,500
Third Year	\$47,000	Fourth Year	\$48,500
Fifth Year	\$50,000	Sixth Year	\$52,000

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/assets/forms/advancededucation2.asp>. for more details regarding additional information to be supplied by the applicant.

Deadline for receipt of application at the school is August 15 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: Orthodontics and Dentofacial Orthopedics

Director:

Jeff Nickel, D.M.D., MSc, Ph.D.

Faculty:

Laura Iwasaki, D.D.S., MSc, Ph.D., Leo Rogers Chair; Don Thompson, D.D.S., M.S.D, Clinic Director; Steve Billings, D. D.S.; Dustin Burleson, D.D.S.; Bob Craven, D.D.S.; Frank Crist, D.D.S., M.S.; John Dorsch, D.D.S., M.S.; Vance Dykhouse, D.D.S., M.S.; Scott Hamilton, D.D.S., M.S.D.; Dennis Harper, D.D.S., M.S.; David Jones, D.D.S., M.S.D.; Kurt Muehlebach, D.D.S.; James Osborne, D.D.S.; Ingrid Reed, D.D.S., M.S.; Jeff Thompson, D.D.S., M.S.; Don Wilson, D.D.S.; Ling Ye, Ph.D.

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 ADA or CDA accredited schools who are in the top 50 percent of their graduating class.
- Graduates of 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 have been in general practices.

Selection of candidates is a twofold process. First, candidates are stratified on the basis of academic and professional performance. GRE scores, Class standing, national board performance, 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. Four residents are accepted into this program annually.

Application for admission must be received at the school on or before Sept. 5th of the year prior to planned enrollment.

Applications may be requested from the Office of Student Programs at (816) 235-2080. The Web site at <http://www.umkc.edu/orthodontics/> contains a link to Student Programs.

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, camera 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: 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; Lynn Friesen, 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.D.; Keerthana Satheesh, B.D.S., D.D.S, M.S., Diplomate, American Board of Periodontology; Asvin Vasanthan, 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; Dan B. Ang, D.D.S., M.S.

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 36-month program covers nine continuous semesters and begins on July 1.

Number of Residents

Two students are accepted into the program each year.

General Applicant Information

The program deadline date for receipt of all required completed application materials is August 15th of the year preceding planned enrollment. Applicants must have successfully completed Part I of the National Dental Board at the time of application and Part II by the time of matriculation. Applicants must have demonstrated English reading, writing and speaking proficiency and a minimum score of 575 (written) or 250 (computer) on the TOEFL examination.

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). Three letters of recommendation are required.

Applications

Applications must be submitted using applications furnished by the Office of Student Programs, UMKC School of Dentistry. Use the link <http://dentistry.umkc.edu/assets/forms/advancededucation2.asp> to receive a brochure describing the program and application materials.

Stipend

No stipend is available.

Income from Periodontic 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 will be required to lease some dental equipment through the school as well as purchase other instruments and equipment. The school employs a new centralized sterilization program for the lease equipment. A list of other required instruments and textbooks will be provided when an applicant is selected to attend the program.

Financial Assistance

Up-to-date additional information on financial assistance can be obtained at <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) 440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611.

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/prosthetic 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.

Graduation Requirements

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.
9. Mechanisms, interactions and effects of drugs used in the prevention, diagnosis and treatment of pulpal and periradicular pathoses.
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.
19. Provide nonsurgical and surgical endodontic treatment.
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.
26. Perform root-end closure procedures.
27. Evaluate, diagnose and manage traumatic injuries to teeth and their supporting structures.
28. Provide endodontic treatment for the medically compromised patient.
29. Develop a differential diagnosis of orofacial pain.
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.

Program Requirements

Course	Course Number	Credit Hours
Endodontology 1	ENDO 5701	1 to 6
Endodontology 2	ENDO 5702	1 to 6
Endodontology 3	ENDO 5703	1 to 6
Endodontology 4	ENDO 5704	1 to 6
Endodontology 5	ENDO 5705	1 to 6
Endodontology 6	ENDO 5706	1 to 6
H&N Anatomy	BMS 5701	2
Oral Pathology	BIO-SCI 5740	2
Research Methodology	RES-ME 5700	2
Molecular Genetics and Biochemistry of Cranial Facial Biology	BIO-SCI 5710	2
Biostatistics	RES-ME 5704	2
Oral Microbiology	BIO-SCI 5730	2
Implantology	PERIO 5719	2
Oral Physiology	BIO-SCI 5760	2
Pharmacology	BIO-SCI 5759	2
Dental Biomaterials	BIO-SCI 5739	1

Graduation Requirements

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 be 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 Radiology

Student Learning Outcomes

The following learning outcomes have been adopted by the faculty as the skills and knowledge that must be demonstrated by every student to qualify for graduation. These outcomes are assessed in the classroom, laboratory and clinic using examinations, papers, presentations and review of clinical performance. Graduates should be able to:

- Determine appropriate imaging examinations, based on clinical examination and interpretation of medical and dental history.
- Utilize conventional and advanced imaging modalities in the oral and maxillofacial region. Make and interpret images of the oral and maxillofacial region and produce written interpretive reports.
- Conduct research related to oral and maxillofacial radiology.
- Teach physical and biological principles of radiology as relates to dentistry.
- Serve as consultant to medicine and dentistry concerning issues related to oral and maxillofacial radiology.
- Assess radiation safety and protection in the dental practice environment.
- Maintain proficiency in the specialty of oral and maxillofacial radiology through ongoing critical evaluation of the scientific literature and attendance at professional meetings and continuing education courses.

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:

1. Continuous certification in Basic Life Support, Advanced Cardiac Life Support, Advanced Trauma Life Support, and Pediatric Advanced Life Support.
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.

Graduate Certificate in Orthodontics and Dentofacial Orthopedics

Student Learning Outcomes

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 26-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.

Program Requirements

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:

Course #	Credit Hours
BIO-SCI 5706 Growth and Development I	1
BIO-SCI 5707 Growth and Development II	1
ORTHOD 5726 Cephalometrics I	2
ORTHOD 5727 Cephalometrics II	2
ORTHOD 5704 Orthodontics and Dentofacial Orthopedics I	1
ORTHOD 5705 Orthodontics and Dentofacial Orthopedics II	1
ORTHOD 5706 Orthodontics and Dentofacial Orthopedics III	1
ORTHOD 5707 Orthodontics and Dentofacial Orthopedics IV	1
ORTHOD 5708 Orthodontics and Dentofacial Orthopedics V	1
ORTHOD 5709 Orthodontics and Dentofacial Orthopedics VI	1
ORTHOD 5710 Orthodontics and Dentofacial Orthopedics VII	1
ORTHOD 5711 Orthodontics and Dentofacial Orthopedics VIII	2
BIO-SCI 5739 Dental Biomaterials for the Dental Specialist	1
BIO-SCI 5740 Pathology	2
BIO-SCI 5760 Physiology of Oral Hard Tissues	2
BIO-SCI 5704 TMD: Evaluation and Management	2
BMS 5701 Head and Neck Anatomy	2
RES-ME 5700 Introduction to Research Methodology	2
RES-ME 5704 Introduction to Biostatistics	3
BIO-SCI 5751 Elements of the Scientific Method	1
BIO-SCI 5752 Research Methods in Oral Biology	2
BIO-SCI 5799 Research and Thesis	6
RES-ME 5703 Thesis Writing	1

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.

Master of Science in Oral Biology

Department of Oral Biology

Chairman, Department of Oral Biology:

J. David Eick, Ph.D.

Director of Graduate Research Programs, Department of Oral Biology

Mary P. Walker, D.D.S., Ph.D.

Doctoral Faculty Participation:

Cynthia Amyot, H. Clark Anderson (A), Cielo Barragan-Adjemian, Lynda Bonewald, Charles M. Cobb (E), Sarah Dallas, J. David Eick, Jian Q. Feng (A), Alan Glaros (E), Jeffrey Gorski, Laura Iwasaki, Mark Johnson, Carole McArthur, Jeffrey Nickel, John Purk, Michael Reed, Ronald Sakaguchi (A), Paulette Spencer (E), Mary Walker, Yong Wang, Karen Williams, 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 M.S. in oral biology. Separate applications are 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).

Admission Procedure

Requests for information, including application materials, should be directed to:

Chairman, Advanced Education Committee
c/o Office of Student Programs
UMKC School of Dentistry
650 East 25th Street
Kansas City, MO 64108-2795

All application materials should be submitted prior to Feb. 1 for students wishing to begin their study in the Fall Semester; however, applications will be considered throughout the year.

Completed applications should be sent to the address above. The completed application packet is forwarded to the Department of Oral Biology for evaluation.

Evaluation Criteria for Admission:

Transcripts

Analysis of transcripts from all prior institutions is required. Under special circumstances (e.g., class standing), consideration may be given to applicants whose GPA is 2.5-3.0.

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.

Letter From Applicant

A letter 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/research/Support/IRB/trainings.html>. 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 form "Master's Degree Program of Study" (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 Molecular Genetics and Cranial Facial Biology
- BIO-SCI 5739 Dental 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 Hard Tissues
- BIO-SCI 5802 Immunopathology
- BIO-SCI 5805 Molecular Biology of Oral Microflora
- BIO-SCI 5806 Oral Microbiology and Infectious Disease
- 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. No qualifying examination or language examination is required for the degree.

Enrollment in BIO-SCI 5799 Research and Thesis is 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. On successful defense and completion of the thesis, incomplete grades will be changed to an appropriate letter grade.

While the master of science 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 master of science 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 student's 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 dentistry.umkc.edu/oralbiology/educationalresources.htm. The 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 M.S. 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.

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.

Other Requirements

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.

- History
- Requirements for Admission
- Job Opportunities
- School Activities
- 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.
3. Narrative statement.
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

The philosophy of the graduate program advocates individualized career planning and advising students to help meet their specific needs and interests in an atmosphere conducive to enhancing the students' critical thinking, decision making and self-evaluative skills as health care professionals.

Graduate students have the opportunity to spend one semester as an extern at another dental hygiene institution or health care facility. This usually is determined by the graduate student's specialization and preference for the extern site, as well as established criteria for the externship. This experience has proved invaluable for most graduate students selecting this option.

Educational Fees

Students in this program are assessed educational fees (as of the 2008-09 academic year) as follows.

	Summer Semester	Fall Semester	Spring Semester
Educational Fee (resident)	\$298.70 per credit hour	\$298.70 per credit hour	\$298.70 per credit hour
Education Fee (nonresident)	\$472.50 per credit hour	\$472.50 per credit hour	\$472.50 per credit hour
Activity Fee (1)	\$15.72 per credit hour	\$15.72 per credit hour	\$15.72 per credit hour
Student Health Fee (1)	\$3.86 per credit hour	\$3.86 per credit hour	\$3.86 per credit hour
Multipurpose Bldg. Fee	\$15.00	\$30.00	\$30.00
Info Tech/Computing (2)	\$12.20 per credit hour	\$12.20 per credit hour	\$12.20 per credit hour
ASUM Fee (1)	\$.15 per credit hour	\$.15 per credit hour	\$.15 per credit hour
Collegiate Readership Fee	\$1.36	\$2.72	\$2.72

(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

Student Learning Outcomes

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:

- 1.1 Posses the ability to take responsibility for one's own education and performance.
- 1.2 Keep current on developments in the dental hygiene profession
- 1.3 Posses the ability to manage several tasks at one time effectively
- 1.4 Allocate time efficiently by setting priorities
- 1.5 Posses the ability to identify problems and find creative solutions.

2.0: Our Graduates will be competent in managing information:

- 2.1 Posses the ability to access information through the use of databases and other electronic medias
- 2.2 Posses the ability to pose a researchable question, develop hypotheses, collect evidence and address hypotheses
- 2.3 Posses the ability to organize information and utilize it effectively
- 2.4 Possess the ability to draw conclusions after weighing evidence, facts and ideas
- 2.5 Posses the ability to convey findings through written communication

3.0: Our graduates will be competent in communicating:

- 3.1 Posses the ability to interact effectively with people whose attitudes and opinions are different than own.
- 3.2 Posses the ability to convey information in many forms i.e. verbal, written and visual.
- 3.3 Posses the ability to effectively present information through technology.
- 3.4 Work cooperatively in groups

Program Requirements

Required Courses

DENT-HYG 4020	Local Anesthesia and Pain Control
DENT-HYG 4040	Introduction to Research and Instruction
DENT-HYG 5500	Educational Methodologies
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 (or its equivalent)
RES-ME 5703	Thesis Writing (thesis option only)
RES-ME 5704	Introduction to Biostatistics (or its equivalent)

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.

Retention Requirements

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.

Graduation Requirements

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.
5. 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
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Mailing Address

University of Missouri-Kansas City
School of Education
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Dean:

Wanda J. Blanchett

Interim Associate Dean:

LaVerne Berkel 

Assistant Dean:

Ginny Miller 

Division of Counseling and Educational Psychology Chair:

Nancy Murdock 

Division of Curriculum and Instructional Leadership Interim Chair:

Rita Barger

Division of Urban Leadership and Policy Studies in Education Chair:

Dianne Smith 

Interim Director of Teacher Education:

Sue Vartuli

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 - Special Education (EDSP)
 - Urban Leadership (EDUL)

History and Mission

History

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.

Mission

The mission of the School of Education is to empower professionals to become reflective practitioners committed to a more just and democratic society. This mission is centered on five 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. Inquiry leading to reflective decision-making and problem-solving.
3. Skilled and knowledgeable professionals working collaboratively.
4. Democracy and social justice.
5. Creating 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.

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 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.

Academic advisers are available to meet with undergraduate education majors and those seeking teacher certification. Academic advisers can be reached by contacting Education 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

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.

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 *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

The *Kansas City Council of the International Reading Association* works closely with the Division of Curriculum and Instructional Leadership and language and literacy faculty to provide programs that acquaint teachers and administrators with issues, special methods and materials in the field of reading education.

Pi Lambda Theta recognizes persons of superior scholastic achievement and high potential for professional leadership; to stimulate independently thinking educators who can ask critical questions to improve educational decision-making.

The purpose of the *Student Personnel Association* is to create a sense of community among students interested in the study of higher education by providing opportunities to interact with each other and discuss common issues and concerns, encouraging social unity and promoting the educational development of members.

Phi Delta Kappa is an honorary education society with the purpose of improving schooling through research and shared information. The national organization publishes high-quality materials in the field of education, and the local chapter sponsors workshops, informational meetings and service projects.

The *Student Missouri State Teachers Association* promotes professional ideals by developing communication, interaction and cooperation among existing chapters, coordinates their major activities, projects and programs, aids in the establishment of new chapters, and establishing and meeting Student-MSTA membership goals. Activities provide personal growth, leadership training and experiences. The activities also provide opportunities by which students may observe and share the work of the teachers in every aspect. This is to promote and cultivate high quality teaching in the education profession.

Special Services

Reading Clinic

Diagnostic and remedial services in reading are available for elementary and high school students who are having difficulty in reading. Contact the Division of Curriculum and Instructional Leadership at (816) 235-**2245** for additional information.

Public School Centers

A number of public schools in the Kansas City metropolitan area cooperate with the School of Education by making available their facilities and staffs for observations, student teaching and demonstrations. These schools are designated centers because of the close relationships that have been developed between UMKC and public schools. The use of the centers ensures that observations and student teaching are closely interwoven with the coursework throughout the program to provide close union of theory and practice. During student teaching, students are under the guidance of cooperating teachers and members of the University's education staff. Weekly seminars are a required part of the program.

Placement

There is a significant local and national demand for teachers. More than 7,000 teaching positions exist in the greater Kansas City area. In addition to those local opportunities, School of Education graduates hold teaching positions across the nation.

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/>.

Technology Learning Laboratory

The School of Education Technology Learning Laboratory is available for all School of Education students, faculty and staff. Individualized instruction is available by appointment, call (816) 235-**2250**. Computers with the PC and Mac platforms are available.

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 time. Continuing Education 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 Urban Leadership and Policy Studies in

Education

Chair:

Dianne Smith, Ph.D. 
(816) 235-2458

Areas of Study and Degrees

- M.A. Educational Administration; Emphasis Areas: Administration (Elementary or Secondary), Higher Educational Administration
- Ed.S. Educational Administration; Emphasis Areas: Administration (Elementary or Secondary), Special Education Administration
- Ed.D. Educational Administration; Emphasis Areas: Administration (Elementary or Secondary); Higher Educational Administration
- Ph.D. Interdisciplinary (Urban Leadership and Policy Studies in Education with other disciplines) (See School of Graduate Studies <http://www.umkc.edu/sgs>)

Student Academic Assessment Policy

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

Faculty Scholastic Activity and Research Interests

Faculty in Urban Leadership and Policy Studies 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

<http://education.umkc.edu/centers.asp>

Kansas City Regional Professional Development Center

The Kansas City Regional Professional Development Center (KCRPDC), instituted at UMKC's School of Education in July 1995, is composed of a support team of professional developers who work with schools and school districts in Clay, Jackson and Platte counties. Funded by the Department of Elementary and Secondary Education, the purpose of the center is to increase the performance of K-12 students in the region by building the capacity of Missouri's teaching and administrative staff through professional development. For more information call (816) 235-**5627**.

The following state-funded, school improvement programs are located within the KCRPDC:

Accelerated Schools

Accelerated Schools is a school improvement initiative based on Henry Levin's work. UMKC hosted the state's first Accelerated Schools Center, in which the staff works with approximately 80 schools. Accelerated Schools teaches a philosophy and a process for bringing about school improvement. For more information call (816) 235-**2442**.

Missouri Assessment Program (MAP)

The goal of the Missouri Assessment Program (MAP) is to raise achievement for all students. Regional facilitators train senior leaders nominated by district administrators. The senior leaders, in turn, share their work and experiences with MAP teams in their own buildings or districts. The professional development provides teachers a foundation for performance-based assessment. For more information call (816) 235-**2497**.

STARR Teachers

Select Teachers As Regional Resources (STARR) teachers are outstanding classroom teachers who are granted sabbaticals from their school districts to work with educators at the district, school and classroom levels. STARR teachers deliver

and facilitate professional development to promote active, hands-on learning by students in all subject areas. Call (816) 235-**2483** for more information.

Economic Education Center

The Economic Education Center is one of a network of centers across the state and nation. The center is affiliated with the Missouri Council for Economic Education (MCEE), which in turn is a part of the National Council for Economic Education. The goal of the Center for Economic Education is to strengthen and support the teaching of economics in K-12 area schools. In keeping with this goal, the center provides graduate coursework, in-service programs and workshops to area teachers. The Economics Education Resource Collection, housed in the Instructional Materials Center in the School of Education, provides resource materials to area teachers.

Center for the Study of Metropolitan Problems in Education

The center was established in 1964 to conduct research on important issues in urban education. Topics emphasized in research have included school desegregation, compensatory education, reform of urban schools and demographic trends affecting metropolitan education. The center maintains a small collection of documents and research reports regarding urban education and it conducts or helps to conduct evaluation studies bearing on local projects involving urban education. Additional information may be obtained by calling (816) 235-**2448**.

Missouri Council of Teachers of Mathematics

The Missouri Council of Teachers of Mathematics is a 501(c)3 not-for-profit organization dedicated to supporting and improving mathematics teaching and learning at all levels. With a membership of more than 2,000, the organization has a long history of quality activities and programs. Affiliated with the National Council of Teachers of Mathematics, MCTM maintains strong contacts with the national agenda and with its own affiliated groups within the state. For more information visit MCTM at <http://www.MoCTM.org>.

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**.

Missouri Center for Safe Schools

The purpose of this center is to provide a clearinghouse where urban, suburban and rural schools across Missouri can get information and ongoing assistance to help them develop promising and effective ways of dealing with the kinds of serious problems school violence represents. For additional information call (816) 235-**5657**.

Institute for Urban Education (IUE): Description

The Institute for Urban Education (IUE) is a four-year 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**.

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* In order to gain a broad and deep understanding of urban communities, students in the IUE are provided with many opportunities 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 sophomore and junior 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

Areas of Study and Degrees

- 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, Mental Health and Marriage and Family
- Ph.D. Counseling Psychology

Faculty Scholastic Activity and Research Interests

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:

Susan Adler, Ph.D. 
(816) 235-2460

Areas of Study and Degrees

- B.A. Early Childhood Education
- B.A. Elementary Education
- B.A. Middle School Education (English, Mathematics, 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 Sciences

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, Learning Technologies, Multicultural Education, Subject Matter Specialty and Teaching English to Speakers of Other Languages
- M.A. Reading Education (Elementary, Secondary, Special)
- M.A. Special Education (Mild/Moderate Cross-Categorical Disabilities)
- Ed.S. Curriculum and Instruction,
- Ed.S. Reading Education
- Ph.D. Interdisciplinary (Education and other disciplines) (See School of Graduate Studies <http://sgs.umkc.edu/>)

Student Learning Outcomes

1. 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.
2. Teachers know the subjects they teach. (Curriculum Design, Content Knowledge)
 - 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.
3. Teachers know how to teach those subjects to students. (Pedagogy, Technology in Instruction)
 - 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.
4. 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.
5. 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.
6. 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.

Student Academic Assessment Policy

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

Faculty Scholastic Activity and Research Interests

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 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 prior to completion of the last 15 hours of coursework. 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.

The amount of workshop credit, either 498 or 470 series courses, that can apply toward a master's degree can not exceed more than 9 credit hours or more than 25 percent of the total degree program.

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:

1. Meet all admission requirements.
2. 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.

3. Complete all coursework listed on the approved program of study.
4. 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.
5. Apply for the degree (graduation) by the posted deadline during the final term of enrollment.
6. 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
- Learning Technologies

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

Humanistic Studies (one course required)Hours
 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
EDUC-C&I 5562	Multicultural Perspectives in Education	3
EDUC-C&I 5563	Teaching for Equity and Social Justice	3
Culminating Experience (one course required)		
EDUC-C&I 5575	Internship	3
EDUC-C&I 5595	Action Research	3

General Emphasis

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.

Early Childhood Emphasis

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. 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.

Early Childhood Courses Hours

(Fifteen hours, including one practicum course, are required)

TCH-ED 440	Introduction to Early Childhood Education	3
TCH-ED 442	Observation, Assessment and Screening	3
TCH-ED 450	Integrating Early Childhood Curriculum	4
TCH-ED 451	Child Guidance in the Classroom	3
TCH-ED 452	Family & Program Relations	4
TCH-ED 453	Learning from Parents	2
TCH-ED 454	Human Relations	3
EDUC-C&I 5576	Administration of Early Childhood Education Programs	3
EDUC-C&I 5578	Play and the Early Childhood Environment	3
EDUC-C&I 5579	Theory and Issues in Early Childhood	3
EDUC-C&I 5580	Curriculum for Early Childhood	3
EDUC-C&I 5581	Infant/Toddler Programs: Theory, Research, and Practice	3
EDUC-C&I 5582	Program Models for Early Childhood Education	3
EDUC-C&I 5583	Supervision in Early Childhood Education	3

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
EDUC 5599	Research and Thesis	3

Elementary Emphasis

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 (four courses required)	Hours
EDUC-C&I 5504 Social Studies Curriculum	
EDUC-C&I 5522 Language Arts in the -or- 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
EDUC-C&I 5539 Mathematics Curriculum Development	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 Multicultural Perspectives in Education	3
EDUC-C&I 5563 Teaching for Equity and Social Justice	3
Culminating Experience	
EDUC-C&I 5516 Philosophical and Family Issues in Special Education	3

Subject Matter (Art, English, Math, Science, Social Studies) Emphasis

Total Hours Required 36

The following courses are required in addition to the core courses listed.

Curriculum in the Designated Subject Matter Area (one course required)	Hours
EDUC-C&I 5504 Social Studies Curriculum	3
EDUC-C&I 5520 English Curriculum in the Middle and High School	3
EDUC-C&I 5522 Language Arts in the Elementary School	3
EDUC-C&I 5539 Mathematics Curriculum Development	3
EDUC-C&I 5551 Science Curriculum in the Middle and High School	3
EDUC-C&I 5566 Specialized Secondary Curriculum in Social Studies	3

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 5566	Social Studies Curriculum in the Middle and High School	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

Multicultural Education Emphasis

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:

Curriculum in Multicultural Education	Hours
EDUC-C&I 5508 Motivating Students through Culturally Responsive Pedagogy	3
EDUC-C&I 5548 English as a Second Language in Content Areas	3
EDUC-C&I 5560 Teaching and Learning in Urban Schools	3
EDUC-C&I 5561 Teaching Diverse Populations in Today's Classrooms	3
EDUC-C&I 5562 Multicultural Perspectives in Education	3
EDUC-C&I 5563 Teaching for Equity and Social Justice	3

Emphasis in Teaching English as a Second Language

Total Hours Required 36

This program leads to an endorsement to teach English to speakers of other languages in schools for those who already possess a teaching certificate for elementary or secondary education. Others 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:

Teaching English as a Second Language	Hours
EDUC-C&I 5545 Linguistics for ESOL Teachers	3
-or-	
ENGLISH 470 Introduction to Descriptive Linguistics	3
EDUC-C&I 5546 Intercultural communication	3
EDUC-C&I 5547 Second Language Acquisition	3
EDUC-C&I 5548 English as a Second Language in Content Areas	3
EDUC-C&I 5549 Practicum in English as a Second Language	3
FRN-LNG 494 Methods of Teaching a Foreign Language	3

An elective course related to teaching English to speakers of other languages. Courses must be approved by a faculty adviser.

Learning Technologies Emphasis

This program of study is designed to develop educators capable of implementing new technologies effectively in a variety of learning environments.

Total Hours Required 36

The following courses are required in addition to the core courses listed:

Curriculum in Technology	Hours
EDUC-C&I 5549 Practicum: Design of Technology Project	3
EDUC-C&I 5570 Curriculum and Instruction in Technology	3
EDUC-C&I 5571 Cognition and Technology	3
EDUC-C&I 5572 Assessing the Role of Technology in Education	3
EDUC-C&I 5573 Development of Learning Technologies Programs	3
EDUC-C&I 5589 Culminating Event: Thesis	3
EDUC-C&I 5595 Action Research	3

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:
 - o Reading instruction for elementary and/or secondary, college and adult students.
 - o Individual assessment and instructional intervention strategies for diverse learners and struggling readers.
 - o Knowledge of the strategies and techniques used in reading research, and experience in reading and reporting such research.
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:

- EDUC 434 Classroom Diagnosis and Correction of Reading Problems (*Will be EDRD 5502 Early Literacy and Language Development after Fall 2009*)
- EDUC 439 Content Area Reading and Language Development (*Will be EDRD 439 after Fall 2009*)
- EDUC 5501 Teaching of Reading (*Will be EDRD 5501 after Fall 2009*)
- EDUC 5534 Reading Assessment and Evaluation (*Will be EDRD 5511 Reading Assessment and Evaluation after Fall 2009*)
- EDUC 5542 Introduction to Diagnostic and Treatment Procedures in Reading (*Will be EDRD 5510 Classroom Based Literacy Assessment and Intervention after Fall 2009*)
- EDUC 5575R Internship in Reading (*Will be EDRD 5520 Practicum in Reading after Fall 2009*)
- EDUC 5590R Seminar in Reading (*Will be EDRD 5515 Seminar in Reading after Fall 2009*)

Humanistic Studies

A minimum of 3 hours must include one of the following courses:

- EDUL 5525 Cultural Foundations of Education
- EDUL 5526 Philosophical Foundations of Education
- EDUL 5527 Historical Foundations of Education

Behavioral Studies

A minimum of 3 hours must include one of the following courses:

- EDRP 5502 Advanced Educational Psychology
- EDRP 5510 Child Behavior and Development
- EDRP 5512 Adolescent Development
- EDRP 5513 Life Span Human Development

Multicultural and Urban Focus

A minimum of 3 hours must include one of the following courses:

- EDCI 5560 Teaching & Learning in an Urban Classroom
- EDCI 5561 Teaching Diverse Populations in Today's Classrooms
- EDCI 5562 Teaching for Equity and Social Justice
- EDCI 5563 Multicultural Perspectives in Education
- EDSP 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 5531 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, private schools, residential centers and hospital programs.

Admission Requirements

Candidates entering the master's program with emphasis in MM/CC disabilities must hold a baccalaureate degree and have an overall 2.75 GPA or higher on a 4.0 scale. Official admission to the University of Missouri-Kansas City graduate school is required. All candidates must pass the School of Education Proficiency Examinations in Computer Literacy and Writing Literacy.

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, prior to filing an official program of study. 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 ranging from 36-66 hours 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 - 66 hours
- Program Option 2: Master's Degree with Special Education Endorsement for Those with Previous Certification - 36-51 hours
- Program Option 3: Master's Degree Only - 36 hours

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.

The number of hours of workshop credit, either 498- or 470-series courses, that can be used on an Ed.S. degree program will be limited to 9 hours.

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, education and urban leadership and policy studies in education 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 education and/or urban leadership and policy studies 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 Ed)

Criteria for Admission to P-12 focus:

1. Completed UMKC application and ULAPSIE supplemental application.
2. Official transcripts from each college attended.
3. Educational Specialist degree or equivalent from an accredited institution with G.P.A. of at least 3.65 in Educational Administration.

4. Graduate Record Examination: quantitative, verbal 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.

Doctor of Education: 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.

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, this diverse 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
- Respect for cultural and individual diversity
- Scientific foundation for all activities
- Developmental models of human growth
- Relatively brief counseling interventions
- Person-environment interaction
- Education
- Career/vocational development

Counseling psychologists recognize the value of human diversity. The program emphasizes faculty and student competence in dealing with the broad range of diversity in both practice and science settings. Our commitment to cultural and individual diversity is reflected in:

- Faculty composition
- Student recruitment
- Scholarship
- Course content and offerings
- Practicum opportunities
- Community service and consultation

Education in counseling psychology follows a developmental model in which science-practice integration is emphasized throughout the program. Early and progressive training is provided in research, culminating in professionals who can design, conduct and evaluate research relevant for counseling psychologists. Similarly, early and progressive training in practice activity is emphasized.

Program graduates will apply the values of counseling psychology to their work in a variety of employment settings, and as scientist-practitioners, their practice is informed by research and approached with a scientific attitude.

Counseling psychologists abide by the American Psychological Association Ethical Principles and Codes of Conduct. Students will understand the ethical, legal and professional issues related to the science and practice of counseling psychology.

More information about the program can be found at <http://education.umkc.edu/CEP/>.

Admission Criteria

The program is designed for bachelor's-level and master's-level applicants. A prerequisite background of core courses is required prior to acceptance into the program. These courses include undergraduate or graduate level: general psychology, theories of personality, tests and measurement, abnormal psychology, experimental psychology and introductory statistics. Students who have two or fewer deficiencies may be admitted. Such students must complete these deficiencies within one year of beginning study.

Recommended minimum for bachelor's level applicants:

- The completion of a bachelor's degree with a major in psychology.
- GRE combined verbal and quantitative scores of 1,000, plus the writing score of 4.5 or above, obtained within the last five years.

- An overall undergraduate 3.0 GPA covering all college work taken prior to the bachelor's degree.

Recommended minimum for master's level applicants:

- The completion of a master's degree or equivalent in counseling or a closely related area.
- GRE combined verbal and quantitative scores of 1,000, plus the writing score of 4.5 or above, obtained within the last five years.
- An overall undergraduate 3.0 GPA or graduate 3.5 GPA with an undergraduate 2.75 GPA.

Individual applicants will be evaluated using the following dimensions: academic potential, interpersonal skills, contribution to program diversity, research potential and professional identity and involvement. Candidates are also evaluated on the basis of the fit between their research interests and those of program faculty.

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.

Admission Procedures:

Using the above criteria, the applicant screening committee will typically select up to 30 applicants to be offered interviews. Personal interviews may be requested, but are not required. From those interviewed, selected applicants will be offered admission. In addition, the committee selects a list of those who were interviewed to serve as alternates. Candidates offered admissions will be required to respond to the invitation by April 15 or within 15 days after notification.

Admission Requirements

Application packets for the Counseling Psychology Program can be obtained from the program's Web site: <http://education.umkc.edu/CEP/phd/index.asp> 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>.)
2. Application fee (May be completed electronically at <http://www.umkc.edu/admissions>.)
3. Official transcripts from all post-secondary institutions.
4. Official Graduate Record Examination (GRE) scores, including the GRE writing 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;
2. Photocopy of the UMKC Application for Admission. **Please be aware that if you submit your UMKC Application for Admission on line, you must print it out before you submit it or it will be lost. If you didn't print the Application out before it was submitted, please either print what you can or print out a copy of the application and fill it out by hand.*
3. 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
4. Curriculum vitae including the following information:
 - Personal information (address, phone, e-mail)
 - Educational background
 - Relevant clinical and research experience
 - Recent volunteer work
 - Honors or awards
 - Membership/leadership in professional organizations
 - Presentations and publications
 1. Three letters of recommendation from raters who know you professionally or in academic settings. (They can not be friends or relatives.)
 - 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 and sign their names across the back of the envelope.
 - Letters in sealed envelopes should be collected by the applicant and submitted with all other application materials.
 4. Photocopy of transcripts.
 5. Photocopy of GRE scores.

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 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 <http://sgs.umkc.edu/> for more information.

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 Emphases 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.
- Graduate Record Exam (GRE) score of 900 (Verbal + Quantitative) or a GRE Verbal score of 450 or better, and a minimum Analytic writing score of 4.0.
- Three letters of reference (use rating forms in application packet). In addition to the provided rating form, references should include a statement of applicant's strengths and areas of further development either in a separate letter or on the back of the rating form.
- Statement defining academic and professional goals.
- MA Counseling and Guidance Application.

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:

1. Application for Admissions (available on-line at www.umkc.edu/admissions).
2. \$35 (domestic) or \$50 (international) non-refundable application fee.
3. Official transcripts from all colleges/universities previously attended (in sealed envelope or sent directly from universities).
4. 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/masters/admission.asp> (detailed instructions available on the application).
2. Graduate Record Exam (official or issued to student).
3. Three letters of reference (use rating forms in the application packet).
4. Statement defining personal and professional goals.

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/CEP/masters/>

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.

Required Core Courses(All Emphases)	Hours
(42 credit hours)	
* CPCE 5500 Intro. to Prof. Counseling (for MH,C/F, and gerontological emphases only)	3
-or-	
CPCE 5502 Foundations of Elementary & Secondary Guidance (for school counseling emphasis only)	3
CPCE 5503 Psychopathology: Diagnoses & Classification	3
# CPCE 5505 Career Development I	3
* EDUC-R&P 5508 Principles. & Methods of Research	3
CPCE 5515 Assessment Methods in Professional Counseling	3
CPCE 5520 Theories of Counseling	3
CPCE 5530 Methods of Counseling	3
CPCE 5531 Counseling Practicum I	3
CPCE 5532 Counseling Practicum II	3
CPCE 5540 Theories and Methods of Group Counseling	3
CPCE 5551 Counseling in a Pluralistic Society	3
CPCE 5553 Ethics & Prof. Issues in Counseling	3
CPCE 5575 Internship A	3
CPCE 5575 Internship B	3
Couples and Family Emphasis Area	Hours
* CPCE 5500 Intro. to Prof. Counseling	3
CPCE 5503 Psychopathology: Diagnoses & Classification	3
# CPCE 5505 Career Development I	3
* EDUC-R&P 5508 Principles & Methods of Research	3
CPCE 5515 Assessment Methods in Professional Counseling	3
CPCE 5520 Theories of Counseling	3
CPCE 5530 Methods of Counseling	3

CPCE 5531	Counseling Practicum I	3
CPCE 5532	Counseling Practicum II	3
CPCE 5540	Theories and Methods of Group Counseling	3
CPCE 5551	Counseling in a Pluralistic Society	3
CPCE 5553	Ethics & Prof. Issues in Counseling	3
CPCE 5575A	Internship	3
CPCE 5575B	Internship	3
CPCE 5527	Theory/Methods of Sex Counseling	3
CPCE 5541	Couples & Family Therapy	3
CPCE 5542	Theory & Techniques of Family Systems Therapy	3
CPCE 5533	Couples & Family Practicum	3
CPCE 5590CF	Seminar in Couples & Family Therapy	3
* EDUC-R&P 5513	Lifespan Human Development	3

Mental Health Emphasis

Hours

* CPCE 5500	Intro. to Prof. Counseling	3
CPCE 5503	Psychopathology: Diagnoses & Classification	3
# CPCE 5505	Career Development I	3
* EDUC-R&P 5508	Principles. & Methods of Research	3
CPCE 5515	Assessment Methods in Professional Counseling	3
CPCE 5520	Theories of Counseling	3
CPCE 5530	Methods of Counseling	3
CPCE 5531	Counseling Practicum I	3
CPCE 5532	Counseling Practicum II	3
CPCE 5540	Theories and Methods of Group Counseling	3
CPCE 5551	Counseling in a Pluralistic Society	3
CPCE 5553	Ethics & Prof. Issues in Counseling	3
CPCE 5575A	Internship	3
CPCE 5575B	Internship	3
CPCE 5527	Theory/Methods of Sex Counseling	3
CPCE 5590MH	Seminar in Mental Health Counseling	3
CPCE 5521	Special Counseling Methods - Substance Abuse	3
* EDUC-R&P 5513	Lifespan Human Development	3
	Approved Electives (2 courses)	6

Gerontological Counseling Emphasis

Hours

* CPCE 5500	Intro. to Prof. Counseling	3
CPCE 5503	Psychopathology: Diagnoses & Classification	3
# CPCE 5505	Career Development I	3
* EDUC-R&P 5508	Principles & Methods of Research	3
CPCE 5515	Assessment Methods in Professional Counseling	3
CPCE 5520	Theories of Counseling	3
CPCE 5530	Methods of Counseling	3
CPCE 5531	Counseling Practicum I	3
CPCE 5532	Counseling Practicum II	3
CPCE 5540	Theories and Methods of Group Counseling	3
CPCE 5551	Counseling in a Pluralistic Society	3
CPCE 5553	Ethics & Prof. Issues in Counseling	3
CPCE 5575A	Internship	3
CPCE 5575B	Internship	3

A&S 5500	Interdisciplinary Colloquium on Aging	3
NURSE 5530	The Experience on Health in Aging	3
SOCIOLOG 410R	Aging in Contemporary Society	3
CPCE 5589A	Counseling and the Older Adult	3
CPCE 5590GC	Seminar in Gerontological Counseling	3
Approved	Elective (1)	3
School Counseling Emphasis		Hours
CPCE 5502	Foundations of Elementary & Secondary Guidance	3
CPCE 5503	Psychopathology: Diagnoses & Classification	3
# CPCE 5505	Career Development I	3
* EDUC-R&P 5508	Principles. & Methods of Research	3
CPCE 5515	Assessment Methods in Professional Counseling	3
CPCE 5520	Theories of Counseling	3
CPCE 5530	Methods of Counseling	3
CPCE 5531	Counseling Practicum I	3
CPCE 5532	Counseling Practicum II	3
CPCE 5540	Theories and Methods of Group Counseling	3
CPCE 5551	Counseling in a Pluralistic Society	3
CPCE 5553	Ethics & Prof. Issues in Counseling	3
CPCE 5575	Internship A	3
CPCE 5575	Internship B	3
* TCH-ED 5404 (1)	Education of the Exceptional Child and Youth	3
CPCE 5504	School Guidance Programs	3
CPCE 5550	Organization and Administration of Counseling Programs	3
* EDUC-R&P 5510	Child Behavior & Development (Elementary and K-12 counselors only)	3
	-or-	
* EDUC-R&P 5512	Adolescent Development & the school (Secondary and K-12 counselors only)	3
	-or-	
* EDUC-R&P 5513	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, 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 6-credit-hour block courses. Each cohort will work collaboratively throughout its studies and be led by University faculty and school leaders from throughout the greater Kansas City region.

Students will develop professional portfolios, including both individual and group projects, over the course of their degree program. 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.

Coordinator:

Gus Jacob , (816) 235-2454, jacoba@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

- Undergraduate at least 2.75 GPA.
- Valid professional teaching certificate.
- One year teaching experience.
- Essay statement regarding past, present and future career goals (500 words or less).
- At least three letters of recommendation.

Acceptance into Practicum

- Successful completion of all coursework (1) with a B grade or better.
- Recommendation of the faculty based on content portfolio examination relative to competencies completed that are consistent with MoStep, Educational Leadership Constituent Council (ELCC), School of Education and ULAPSIE Division standards and dispositions.

Program Completion and Recommendation for Administrative Certificate

- Recommendation of the faculty based on content portfolio examination relative to competencies completed that are consistent with MoStep, Educational Leadership Constituent Council (ELCC), School of Education and ULAPSIE Division standards and dispositions.
- Successful completion of the practicum, which includes the employment portfolio.
- Recommendation of the faculty based on coursework completion, development of an administrative platform and exit presentation.
- Completion of the student exit survey.

Post-Program Completion

- Student completion of ULAPSIE graduate survey relative to preparation program and ELCC standards.
- Employer survey completion (supervisor).
- Virtual coaching.
- Focus groups comprised of first-, second- and third-year administrators.

(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 Block Course EDUC-UL 5501.

(3) The Block I Portfolio requirement aims to move students toward intellectual competence and understanding of School of Education and division academic standards (i.e., Educational Leadership Constituent Consortium (ELCC) national standards and MoSTEP state standards).

(4) 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

Theoretical and Functional Aspects of Educational Administration (27 hours)

Required core for all level principals:Hours

EDUC-UL 5501*	Foundations of School Leadership and Organization (Block I)	6
EDUC-UL 5502*	Building Administration & Management (Block II)	6
EDUC-UL 5503*	Student, Staff & Organization Development (Block III)	6
EDUC-UL 5507	School Supervision	3
EDUC-UL 5515	Governmental & Legal Aspects of Education	3
EDUC-UL 5574	Administrative Practicum	3

* EDUC-UL 5501, 5502 and 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)HoursSelect one course:

EDUC-C&I 5505	Introduction to Curriculum Theory	3
EDUC-C&I 5506	Curriculum Design	3
EDUC-C&I 5591	Curriculum & Instruction for the 21st Century	3

Humanistic (Required 3 hours)Select one course:

EDUC-UL 5524	Phil. Inquiry and Education	3
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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
EDUC-R&P 5604	Cognitive Processes in Learning & Instruction	3

Research (Required 3 hours)Select one course:

EDUC-R&P 5505	Statistical Methods I	3
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 must complete the educational specialist degree to earn advanced principal certification in Missouri. In addition to completion of the academic program, Missouri requires 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:
 - o Completion of the UMKC graduate admission application.
 - o An undergraduate 3.0 GPA or higher.
 - o GRE (Verbal/Quantitative/Essay) Scores.
 - o Two Letters of Reference.
 - o 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:
 - o Apr. 1 for summer term
 - o July 1 for fall term
 - o Nov. 1 for spring term

Required Core Courses (18 credit hours)Hours

EDUL 5550	Organization and Administration of Higher Education	3
EDUL 5556	The College Student	3
EDUL 5560	Leadership in Higher Education	3
EDUL 5564	History of Higher Education	3
EDUL 5566	Racial and Ethnic Diversity, and Cultural Understanding	3
EDUL 5567	Higher Education Capstone	3

Internship (3 credit hours)

EDUL 5571	Internship in Higher Education	3
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Research and Statistics (3 credit hours)

EDRP 5508	Principles and Methods of Research	3
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Foundation Requirement (3 credit hours)Select One Course:

EDUL 5526	Philosophical Foundations of Education	3
EDUL 5528	Sociological Foundations of Education	3

Electives to Complete the Degree (9 credit hours)Select 3 Courses:

EDUL 5525	Cultural Foundations of Education	3
EDUL 5526	Philosophical Foundations of Education	3
EDUL 5528	Sociological Foundations of Education	3
EDUL 5551	Student Affairs Administration in Higher Education	3
EDUL 5552	Financial Aspects of Higher Education	3
EDUL 5555	Community College	3
EDUL 5557	Legal Aspects of Higher Education	3
EDUL 5558	Advanced Student Development Theory	3
EDUL 5559	Current Issues in Higher Education	3
CPCE 5505	Career Development	3
EDRP 5505	Statistical Methods I	3

Note: The student may select courses from other disciplines to meet elective hours. All coursework must be approved by the advisor.

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:
 - o Reading instruction for elementary and/or secondary, college and adult students.
 - o Individual diagnosis and treatment of sub-optimal to severely disabled readers.
 - o Knowledge of the strategies and techniques used in reading research, and experience in reading and reporting such research.
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

A minimum of 21 credit hours of reading coursework is required and must include:

- EDUC 434 Classroom Diagnosis and Correction of Reading Problems
- EDUC 439 Content Area Reading and Language (4-12)
- EDUC 5501 Teaching of Reading
- EDUC 5534 Reading Assessment and Evaluation
- EDUC 5542 Introduction to Diagnostic and Treatment Procedures in Reading
- EDUC 5575R Internship in Reading
- EDUC 5590R 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 Multicultural Perspectives in Education
- EDUC-C&I 5563 Teaching for Equity and Social Justice

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.

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, private schools, residential centers and hospital programs.

Admission Requirements

Candidates entering the master's program with emphasis in MM/CC disabilities must hold a baccalaureate degree and have an overall 2.75 GPA or higher on a 4.0 scale. Official admission to the University of Missouri-Kansas City graduate school is required. All candidates must pass the School of Education Proficiency Examinations in Computer Literacy and Writing Literacy.

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, prior to filing an official program of study. 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 ranging from 36-66 hours 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 - 66 hours
- Program Option 2: Master's Degree with Special Education Endorsement for Those with Previous Certification - 36-51 hours
- Program Option 3: Master's Degree Only - 36 hours

For specific degree requirements, contact the Division of Curriculum and Instructional Leadership at (816) 235-**2241** 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.

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.

Students are not currently being admitted in the Special Education emphasis area of the Ed.S. in Educational Administration program.

Requirements for Admission

Candidates must:

1. Possess a bachelor's or master's degree.
2. Have compatible teacher certification if seeking administrative certification (i.e., to be an elementary principal one must be an elementary teacher).
3. Have at least two years of professional education experience.
4. Meet unconditional admission requirements of the School of Graduate Studies, the School of Education and the Division of Urban Leadership and Policy Studies.

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

The basic prerequisite course for the higher educational administration program is:

- EDUC-UL 5550, Organization and Administration of Higher Education

Completion of one of the following is required in all programs:

- EDUC-UL 5574 Administrative Practicum
- EDUC-UL 5570 Administrative Practicum in Higher Educational Administration
- EDUC-UL 5575 Internship in Administration
- EDUC-UL 5571 Internship in Higher Educational Administration

Candidates are required to complete 18-27 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, counseling, anthropology and approved courses from the Henry W. Bloch School of Business and Public Administration or from the behavioral sciences or humanities are considered appropriate. Also required are both of the following:

- EDUC-R&P 5508, Principles and Methods of Research
- A second approved research course, such as statistics or a computer language.

Note: Students should identify a faculty adviser in urban leadership and policy studies in education at the time of

admission to the School of Education. Final program planning is a joint responsibility of the candidate, the faculty adviser and the candidate's committee.

The committee, consisting of three members of the faculty, is established for each candidate early in the program of study. This committee and the candidate work cooperatively in reviewing progress in the program, planning the field project and making arrangements for the oral examination. The committee makes recommendations to the dean of the School of Education regarding the candidate's program and the satisfactory completion of graduation requirements.

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 5570 Administrative Practicum in Higher Education
-or-
EDUC-UL 5575 Administrative Internship
-or-
EDUC-UL 5571 Administrative Internship in Higher Educational Administration.
2. A planned field experience.
3. A written project.
4. A final oral examination upon completion of the administrative practicum or internship.
5. 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.

Emphasis areas include 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.

The Educational Specialist program has four options: expand the area of their master's degree, re-specialize in a different emphasis area, become certified as a school counselor, or add an emphasis area. 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 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, 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:

- 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 (for graduates from the Mental Health and Substance Abuse emphasis areas only)
- Program development and management (school counseling emphasis)
- Counseling supervision

Requirements for Admission

Applicants must:

1. Satisfy all requirements for unconditional admission to the School of Graduate Studies.
2. Hold a master's degree in counseling from an accredited institution.
3. Have completed courses in theories and methods of counseling and in counseling practicum with grades no lower than B.
4. Have a graduate GPA of at least 3.25 on a 4.0 scale.
5. A minimum verbal score of 450 or a combined verbal and quantitative score of 900, and a minimum analytical writing score of 4.0 on the GRE is required for consideration under regular admission criteria. The GRE requirement can be waived if the applicant is a graduate of a master's degree program equivalent to the UMKC Master's degree in Counseling and Guidance (at least 48 credit hours) with a graduate 3.75 GPA.

Admission Procedures

Individuals must make a formal application to the Division of Counseling and Educational Psychology for admission into the educational specialist program. Applications are accepted and reviewed on an ongoing basis.

Send the following materials:

1. UMKC Application for Admission.
2. Application Fee : \$35.
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.
2. Three letters of recommendation.
 - o Raters should address your suitability for professional studies in mental health.
 - o Raters should have knowledge of your interpersonal and intellectual functioning and skills in research, counseling and written and oral communication.
 - o Raters should enclose their letters of recommendation along with the provided rating sheet in an envelope and sign their names across the back of the envelope.
 - o All letters should be collected by the applicant and returned with all other application materials, **or** raters may mail directly to the Education Specialist Counseling and Guidance Admissions Committee.
3. Personal statement.
 - o Submit a concise two-three page statement concerning your professional goals.
 - o Include your professional and applied interests/experiences.
4. Self-addressed stamped envelope.

to the following address:

Mailing Address

University of Missouri-Kansas City
Counseling and Educational Psychology
215 Education
5100 Rockhill Road
Kansas City, MO 64110-2499

Curriculum

Program of study must include the equivalent of the current M.A. degree in Counseling and Guidance at UMKC plus an additional emphasis-area minimum of 18 credit hours. Coursework is dependent on the emphasis option chosen and will be determined with the help of an 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.

General Mental Health Emphasis

CPCE 5605 Career Development II 3

or

CPCE 5620 Advanced Theories and Methods of Counseling 3

CPCE 5640 Counseling Supervision 2

CPCE 5589 Supervision Experience 3

CPCE 5539 Continuing Counseling Practicum (Mental Health) 3

Select 9 hours from the following:

CPCE 5503 Psychopathology: Classification & Treatment 3

CPCE 5521 Special Counseling Methods Substance Abuse 3

CPCE 5542 Theory and Techniques of Family Systems Therapy 3

EDUC-R&P 5513 Lifespan Human Development 3

CPCE 5527 Theories and Methods of Sex Counseling 3

A&S 5500 Interdisciplinary Colloquium on Aging 3

NURS 5530 The Experience of Health in Aging 3

SOC 410R Aging in Contemporary Society 3

CPCE 5589A Special Topics: Counseling the Older Adult 3

CPCE 5598 Independent Study 3

CPCE 5590MH Final Seminar: Mental Health 3

School Counseling Emphasis

CPCE 5605 Career Development II 3

or

CPCE 5620 Advanced Theories and Methods of Counseling 3

CPCE 5640 Counseling Supervision 2

CPCE 5589 Supervision Experience 3

CPCE 5575C Counseling Internship (School) 3

CPCE 5502 Foundation of Elementary & Secondary Guidance 3

CPCE 5504 School Guidance Programs 3

* TCH-ED 404(1) 5404 (1) Education of the Exceptional

Child and Youth 3

* EDUC-C&I 5512 (2) Strategies for Effective

Classroom Management 3

* EDUC-C&I 5517 (2) Teaching Methods & Practices 3

CPCE 5550 Organization and Administration

of Counseling Programs 3

* EDUC-R&P 5510 Child Behavior & Development 3

-or-

* EDUC-R&P 5512 Adolescent Development

& the school 3

-or-

* EDUC-R&P 5513 Lifespan Human Development 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.

The Educational Specialist in School Counseling also requires satisfactory completion of the Praxis II: School Guidance and Counseling examination and completion of portfolio requirements.

Requirements for Graduation

Students must complete all courses in the Ed.S. program with at least a 3.0 (B) 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.

More information about the program can be found at http://education.umkc.edu/CEP/ed_specialist/index.asp

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 500 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 5589 Special Topic: Adult Development

EDUC-C&I 5570 Curriculum and Instruction in Technology

Working with Diverse Learners (9 hours)

EDUC-R&P 5522 Principles of Testing **or** EDUC-C&I 5619 Curriculum Evaluation

EDUC-C&I 5562 Teaching for Equity and Social Justice **or** EDUC-C&I 5563 Multicultural Perspectives in Education

EDUC-C&I 5589 Special Topics: Facilitating Differential Instruction (including ELL, special education and gifted)

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

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-1

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.

Educational Administration, Ed.D.

The Doctorate of Education Degree in Educational Administration has been designed to meet the needs of aspiring administrators in urban and metropolitan school districts and in area colleges and universities.

Coordinator:

Loyce Caruthers, (816) 235-1044, caruthersl@umkc.edu for P-12 administration program
Bonita Butner, (816) 235-2325, butnerb@umkc.edu for higher educational administration program

Criteria for Admission:

1. Completed UMKC application and ULAPSIE supplemental application.
2. Official transcripts from each college attended.
3. Educational Specialist degree or equivalent from an accredited institution with G.P.A. of at least 3.65 in Educational Administration.
4. Graduate Record Examination: quantitative, verbal 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.

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, this diverse 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
- Respect for cultural and individual diversity
- Scientific foundation for all activities
- Developmental models of human growth
- Relatively brief counseling interventions
- Person-environment interaction
- Education
- Career/vocational development

Counseling psychologists recognize the value of human diversity. The program emphasizes faculty and student competence in dealing with the broad range of diversity in both practice and science settings. Our commitment to cultural and individual diversity is reflected in:

- Faculty composition
- Student recruitment
- Scholarship
- Course content and offerings
- Practicum opportunities
- Community service and consultation

Education in counseling psychology follows a developmental model in which science-practice integration is emphasized throughout the program. Early and progressive training is provided in research, culminating in professionals who can design, conduct and evaluate research relevant for counseling psychologists. Similarly, early and progressive training in practice activity is emphasized.

Program graduates will apply the values of counseling psychology to their work in a variety of employment settings, and as scientist-practitioners, their practice is informed by research and approached with a scientific attitude. Counseling psychologists abide by the American Psychological Association Ethical Principles and Codes of Conduct. Students will understand the ethical, legal and professional issues related to the science and practice of counseling psychology. More information about the program can be found at <http://education.umkc.edu/CEP/>.

Admission Criteria

The program is designed for bachelor's-level and master's-level applicants. A prerequisite background of core courses is required prior to acceptance into the program. These courses include undergraduate or graduate level: general psychology, theories of personality, tests and measurement, abnormal psychology, experimental psychology and introductory statistics. Students who have two or fewer deficiencies may be admitted. Such students must complete these deficiencies within one year of beginning study.

Recommended minimum for bachelor's level applicants:

- The completion of a bachelor's degree with a major in psychology.
- GRE combined verbal and quantitative scores of 1,000, plus the writing score of 4.5 or above, obtained within the last five years.
- An overall undergraduate 3.0 GPA covering all college work taken prior to the bachelor's degree.

Recommended minimum for master's level applicants:

- The completion of a master's degree or equivalent in counseling or a closely related area.
- GRE combined verbal and quantitative scores of 1,000, plus the writing score of 4.5 or above, obtained within the last five years.
- An overall undergraduate 3.0 GPA or graduate 3.5 GPA with an undergraduate 2.75 GPA.

Individual applicants will be evaluated using the following dimensions: academic potential, interpersonal skills, contribution to programs diversity, research potential and professional identity and involvement. Candidates are also evaluated on the basis of the fit between their research interests and those of program faculty.

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.

Admission Procedures:

Using the above criteria, the applicant screening committee will typically select up to 30 applicants to be offered interviews. Personal interviews may be requested, but are not required. From those interviewed, selected applicants will be offered admission. In addition, the committee selects a list of those who were interviewed to serve as alternates. Candidates offered admissions will be required to respond to the invitation by April 15 or within 15 days after notification.

Admission Requirements

Application packets for the Counseling Psychology Program can be obtained from the program's Web site: <http://education.umkc.edu/CEP/phd/index.asp> 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 Jan. 15. Application materials must be submitted to two separate offices on campus: A. The UMKC Admissions Office, -and- B. The Division of Counseling and Educational Psychology.

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>.)
2. Application fee (May be completed electronically at <http://www.umkc.edu/admissions>.)
3. Official transcripts from all post-secondary institutions.
4. Official Graduate Record Examination (GRE) (taken within the last five years).

Mailing Address

University of Missouri-Kansas City
Office of Admissions
120 Administrative Center
5100 Rockhill Road
Kansas City, MO 64110-2499

B. Materials to be sent to the Division of Counseling and Educational Psychology:

1. Curriculum vitae including the following information:

- Personal information (address, phone, e-mail)
- Educational background
- Relevant clinical and research experience
- Recent volunteer work
- Honors or awards
- Membership/leadership in professional organizations
- Presentations and publications

2. Three letters of recommendation, with evaluation forms as provided by UMKC:

- 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 and sign their names across the back of the envelope.
- Letters in sealed envelopes should be collected by the applicant and submitted with all other application materials.

3. Personal statement (2-3 pages) detailing professional goals, including research and applied interests.
4. Photocopy of the UMKC application for admission.
5. Photocopy of transcripts.

6. Photocopy of GRE scores.
7. Cover sheet for the Ph.D. in Counseling Psychology.
8. Self-addressed stamped envelope.

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

Interdisciplinary, Ph.D.

Refer to the School of Graduate Studies <http://sgs.umkc.edu/> for more information.

Admission to the Teacher Education Program

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 the middle school, secondary and K-12 programs are accepted until February 1 for admission the subsequent summer semester. Applications for the elementary and early childhood programs are accepted until July 1 with priority given to applications received by February 1 for admission the subsequent fall semester.

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:
 - o Completion of a majority of specific prerequisite and subject area coursework with a 2.75 cumulative GPA and 2.5 content area GPA
 - o Score results from the ACT or SAT (if graduated from high school in past 5 years)
 - o A score of 235 or greater on each segment of the College Basic Academic Subjects Examination (C-BASE)
 - o 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)
 - o Clearance of an FBI background check as required by the Missouri Department of Elementary and Secondary Education
 - o 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
3. Admission to student teaching requires:
 - o Recommendations from methods teachers.
 - o A cumulative 2.75 GPA.
 - o A subject area 2.5 GPA.
 - o Completion of all education courses with grades of C or better.
 - o Review and approval of the teacher work sample.
 - o Middle school, secondary and K-12 education majors must have passed the PRAXIS II content examination required by Missouri.
 - o 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.

Advising

Students pursuing an education major receive academic advising through the School of Education Student Services Office, room 129. In addition, all students are assigned a faculty adviser who will be available for assistance in program and career planning.

Academic advisers help students select courses appropriate to their major, investigate possible alternatives in education and outline course schedules based on future offerings that will allow students to complete their program in a timely manner. Academic advisers also refer students to faculty members for specific guidance in selection of subject matter courses and to other University support units, such as Counseling Services and the Financial Aid and Scholarships Office as needs indicate.

An academic advising appointment is required of all Teacher Education (TE) students prior to registration each semester. Call (816) 235-**2234** to set up an appointment.

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.

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/forms.html#Frequently_Requested_Forms or can be requested in the UMKC School of Education Student Services Office. Certification application materials and information for Kansas can be obtained directly from the state at <http://www.ksde.org>. 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 Education Administration, Ed.S. special education 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 an application for provisional certificate. The student then brings the application to the certification officer for the School of Education for completion of an academic contract.

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://www.dese.mo.gov/divteachqual/teachcert/aprequestbc.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's 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

EDUC 180 Introduction to Education

EDUC 149 Economics in the K-8 Classroom

or

GEOG 105 Introduction to the Elements of Geography

ENGLISH 110 English I: Introduction to Academic Prose

MATH 130 Number Systems and Related Topics

Various Chemistry/Earth Science/Physical Science with Lab

Biology 102 Biology and Living

Biology 102L Biology and Living Laboratory

Comm-St 110 Fundamentals of Effective Speaking and Listening

English 225 English II: Intermediate Academic Prose

TCH-ED 385 Teaching and Learning with Technology

History 101 American History to 1877

or

History 102 American History Since 1877

Pol-Sci 210 American Government

TCH-ED 201 Children's Literature

TCH-ED 400 Child Development

TCH-ED 403 Educational Psychology

EDUC 428 Cultural Diversity and American Education

TCH-ED 402	Creative Activities
TCH-ED 404	Education of the Exceptional Child and Youth
TCH-ED 440	Introduction to Early Childhood Education
Various 300WI	Writing Intensive course numbered 300 or above
TCH-ED 444	Mathematics in Early Childhood and Elementary Schools
TCH-ED 445	Science in Early Childhood and Elementary Schools
TCH-ED 483	Early Childhood Reading I: Introduction to Literature and Reading Education
TCH-ED 441	Literacy Development
TCH-ED 442	Observation, Assessment & Screening in Early Childhood Classrooms
TCH-ED 451	Child Guidance within the Classroom
TCH-ED 480	Practicum I Early Childhood
TCH-ED 484	Early Childhood Reading II: Assessing and Teaching Diverse Learners
TCH-ED 454	Human Relations in the Early Childhood Classroom
TCH-ED 457	Infant and Toddler Care and Education
TCH-ED 458	Practicum for Learning About Infants and Toddlers
TCH-ED 459	Early Childhood Program Management and Advocacy
TCH-ED 481	Practicum II Early Childhood
TCH-ED 485	Language Arts in the Early Childhood Classroom
TCH-ED 447	Social Studies in Early Childhood and Elementary Schools
TCH-ED 452	Family and Program Relationships in Early Childhood Education
TCH-ED 453	Learning from Parents
TCH-ED 454	Human Relations in the Early Childhood Classroom
TCH-ED 455	Student Teaching in Preschool
TCH-ED 456	Student Teaching in Elementary, K - 3

GRADUATION REQUIREMENTS EARLY CHILDHOOD EDUCATION

Completion of 120 credit hours including all course work listed

Written English Proficiency Test passed

Passing score on Praxis II: Education of Young Children examination

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.

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.

Institute for Urban Education (IUE): Admission and Program Requirements

Admission to the Institute for Urban Education

The Institute for Urban Education is a four year undergraduate program designed to prepare exemplary educators for urban schools. The IUE curriculum combines content courses with teaching methods courses to fully prepare students for teaching in urban schools. Degree programs in the IUE include elementary education, middle school math, middle school science, and middle school English. Graduates of the IUE teacher preparation programs may be certified to teach in both Missouri and Kansas. In exchange for financial assistance, IUE graduates make a commitment to teach in an IUE partner urban school for a minimum of four years upon graduation.

The program is scholarship-based and students are selected through a multi-step admission process. The priority deadline for IUE applications is March 1. The following items make a complete application to the IUE:

1. General UMKC Admission

Applicants to the Institute for Urban Education must first be accepted into UMKC.

Applications are available at <http://www.umkc.edu/admissions/>. A \$35 application fee payable to UMKC is required of students not already admitted to UMKC. (The fee is \$45 when submitting a paper application.) Indicate on the admissions application that you are applying to the Institute for Urban Education.

UMKC's Admissions Office processes admissions applications as they are received. Please note it may take up to four to six weeks to be accepted into UMKC. Only after you are admitted will your information be shared with the IUE office.

2. Personal Statement

Please attach to your UMKC Application for Admission a typed personal statement of approximately **750** words, addressing your interest and commitment to urban education. You may also explain why you have chosen education and why you think you will be an effective teacher in an urban school.

3. Supplemental application and supporting materials

In addition to the UMKC Application for Admission, you must also apply to the Institute for Urban Education.

4. References

Two letters of reference are required. At least one should be from an educator or from someone familiar with your past experience working with youth. Both letters should be submitted using the attached reference forms located on the IUE application. They should be kept confidential, signed and submitted in sealed envelopes to the address listed on the forms. Do not ask relatives to provide a letter for you.

5. FAFSA

All students must complete the Federal Application for Federal Student Aid (FAFSA) each year. The form can be found at <http://www.fafsa.ed.gov/> and must be submitted between Jan. 1 and March 1 of each year

6. UMKC General Scholarship Application

IUE applicants also are required to complete the Application for UMKC General Scholarships each year. Forms are available at <http://www.sfa.umkc.edu/>.

7. Personal Interview

Files of applicants admitted to UMKC will be reviewed by the IUE and potential finalists will be contacted for personal interviews.

Program Requirements

Students admitted to the IUE must meet the following requirements to continue in the program:

- Maintain a cumulative GPA of 3.0 or higher.
- Meet the professional expectations for students of the IUE.
- Meet the expectations as indicated on the pre-service teacher assessments, each semester.
- Complete the Federal Application for Financial Student Aid (FAFSA), each year.
- Pass a FBI background check as required by the Missouri Department of Elementary and Secondary Education (DESE).
- Complete the College Basic Subjects Exam (CBASE) with scores of 235 or better prior to year three of the IUE program.
- Make a commitment to teach in an urban district for up to four years following graduation in exchange for the financial support, for those receiving IUE scholarships.

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

Education 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 201	Western Civilization to 1600
or	
History 202	Western Civilization Since 1600
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
Conservatory 285	Elementary Music Methods
Math 140	Mathematics for Teachers: Elementary Geometry
Humanities Elective	Class from Art, Conservatory, English, Foreign Language, Philosophy or Theater
English 225	English II: Intermediate Academic Prose
History 101	American History to 1877
or	
History 102	American History since 1877
PHYS-ED 312	Physical Education for Teachers
Pol-Sci 210	American Government
TCH-ED 403	Educational Psychology
Humanities Elective	Class from Art, Conservatory, English, Foreign Language, Philosophy or Theater
TCH-ED 201	Children's Literature
TCH-ED 404	Education of the Exceptional Child and Youth
Education 149	Economics in the K-8 Classroom
Geography 105	Introduction to the Elements of Geography
PHYS-ED 401	Health Teaching in the Schools
STAT 234	Mathematics for Teachers: Probability and Statistics
TCH-ED 385	Teaching and Learning with Technology
TCH-ED 308	Introductory Foundations
ENGLISH 250	Introduction to Language Acquisition and Diversity
TCH-ED 400	Child Development
TCH-ED 405	Practicum I

TCH-ED 408WI	Advanced Foundations
TCH-ED 409	Curriculum and Assessment
TCH-ED 415	Reading I: Intro to Literacy and Reading Instruction
TCH-ED 201	Children's Literature
TCH-ED 406	Practicum II
TCH-ED 410	Teacher in the Classroom
TCH-ED 413	Mathematics in the Elementary School
TCH-ED 416	Reading II: Assessing and Teaching Diverse Learners
TCH-ED 417	Science in the Elementary School
EDUC 428	Cultural Diversity and American Education
TCH-ED 404	Education of the Exceptional Child and Youth
TCH-ED 431	Community Immersion
TCH-ED 402	Integrated Arts
TCH-ED 407	Practicum III
TCH0ED 412	Language Arts in the Elementary and Middle School
TCH-ED 418	Social Studies Methods in the Elementary and Middle Schools
TCH-ED 438	Culturally Responsive Strategies for Working with Diverse Student Population
TCH-ED 475	Working with Families and Communities
TCH-ED 419	Student Teaching
TCH-ED 499	Capstone

GRADUATION REQUIREMENTS ELEMENTARY EDUCATION

Completion of 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 samples 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. Consult with an academic advisor to determine specific course requirements.

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 110 or Conservatory 120 or Theater 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

BIOL 102 Biology and Living

BIOL 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

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

12 hours of English course work. *Select from: EDUC 414, ENG 305WI, ENG 317, ENG 320, ENG 323, ENG 327 or ENG 330*

Electives

9 additional course work in any field to assure 120 hours have been attained.

GRADUATION REQUIREMENTS MIDDLE SCHOOL ENGLISH

Completion of 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 105 The Language of Mathematics

or

Math 214 Mathematics for Teachers: Algebra

or

Math 224 Mathematics for Teachers: Geometry

Math electives

9 hours of math course work

Electives

6 hours of additional course work to assure 120 hours have been attained.

GRADUATION REQUIREMENTS MIDDLE SCHOOL MATHEMATICS

Completion of 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

10 hours of science elective course work

Electives

8 hours of additional course work to assure 120 hours have been attained

GRADUATION REQUIREMENTS MIDDLE SCHOOL SCIENCE

Completion of 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 201 Western Civilization to 1600

or

HISTORY 206 World History to 1600

HISTORY 208 Western Civilization since 1600

or

HISTORY 206 World History to 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

12 hours of additional course work to assure 120 hours have been attained

GRADUATION REQUIREMENTS MIDDLE SCHOOL SOCIAL STUDIES

Completion of 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 professional portfolio 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)
- 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 Area

Students must consult with their academic adviser concerning specific requirements for arts and sciences and for education. 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.

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. Designs and 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.

4. Knows theories of learning.

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 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.
3. Practices professional ethical standards.

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.
 - Working with severely reading disabled to dyslexic children.
 - 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 30 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)

TCH-ED 427 Reading in the Secondary School

EDUC 434 Classroom Diagnosis and Correction of Reading Problems (Will be EDRD 5502 Early Literacy and Language Development after Fall 2009.)
EDUC 439 Content Reading and Language Development (Will be EDRD 439 after Fall 2009.)
EDUC 5501 The Teaching of Reading (Will be EDRD 5501 after Fall 2009.)
EDUC 5534 Reading Assessment and Evaluation (Will be EDRD 5511 Reading Assessment and Evaluation after Fall 2009.)
EDUC 5542 Introduction Diagnostic and Treatment Procedures in Reading (Will be EDRD 5510 Classroom Based Literacy Assessment and Intervention after Fall 2009.)
EDUC 5575R Internship in Reading (Will be EDRD 5520 Practicum in Reading after Fall 2009.)
EDUC 5590R Seminar in Reading (Will be EDRD 5515 Seminar in Reading after Fall 2009.)
EDRD 5530 Reading Instruction for K-12 English Language Learners
EDRD 5531 Teaching Reading Improvement: Secondary, College, Adult Level
EDUC 5601 Organizing and Guiding the Reading Program (Will be EDRD 5601 after Fall 2009.)
EDUC 5640 Apprenticeship and Conference in College Training (Will be EDRD 5640 after Fall 2009.)
EDUC 5650 Dyslexia and Related Learning Disabilities (Will be EDRD 5650 after Fall 2009.)
EDUC 5690 Special Problems (Note: Field Project Class) (Will be EDRD 5690 after Fall 2009.)
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 5524 Philosophical Inquiry and Education
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.

ULPSE Student Learning Outcomes

The mission of the UMKC division of Urban Leadership and Policy Studies in Education (ULAPSIE) 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.

Conceptual Framework and Program Goals

Goal No. 1: Educational leaders who are in the fields of Prek-12 and higher education foster learning, listening, reflection and renewal.

1. Students will develop a philosophical vision of educational institutions with high standards.
2. Students will reflect on the role of leadership in multiple community settings.

NCATE Standard 1, Elements 2, 5, 6 and 8; MoSTEP Standard 1.3.1

Goal No. 2. Educational leaders who are in the fields of Prek-12 and higher education promote diversity, equity and social justice.

1. Students will systematically and coherently frame the particular educational and social issues in schools and communities.
2. Students will identify and critically analyze those aspects of organization and culture of educational institutions regarding social justice and equity.
3. Students will plan practicum/internship projects that reflect a theme of social justice, equity, and diversity.

NCATE Standard 1, Elements 2, 5, 6 and 8; NCATE Standard 4, Elements 1, 2, 3 and 4; MOSTEP Standards 1.3.2 and 1.3.4

Goal No. 3. Educational leaders who are in the fields of Prek-12 and higher education emphasize critical inquiry, dialogue, effective communication and the importance of positive human relationships.

1. Students will explain and apply essential elements of theory and practice that are important to the successful exercise of leadership and management in public service organizations, as well as reflect upon their leadership skills and style.
2. Students will demonstrate how they would forge learning environments that are trustful and allow critical dialogue around issues of curriculum/pedagogical strategies and race, class, gender, ethnicity, socioeconomic, sexual orientation and disability.
3. Students will facilitate safe and effective learning environments for children and adults.

NCATE Standard 1, Elements 2, 5, 6 and 8; NCATE Standard 4, Elements 1, 2, 3 and 4; MoSTEP Standards 1.3.3, 1.3.5 and 1.3.2

Goal No. 4. Educational leaders who are in the fields of Prek-12 and higher education enhance the capacity of individuals to be education entrepreneurs and leaders of organizations, which reflect state-of-the-art practices and traditions.

1. Students will engage in ongoing professional development activities that encourage continued learning.
2. Students will use multiple forms of technology to advance student and adult growth.
3. Students will use TaskStream to develop formative and summative portfolio.
4. Students will understand leadership as lateral relationships, including organizational politics and conflict resolution.
5. Students will enhance their ability to diagnose organizational behavior by encouraging multi-frame thinking and analysis.

NCATE Standard 1, Elements 2, 5, 6 and 8; NCATE Standard 2, Elements 1, 2 and 3; MoSTEP Standards 1.3.2, 1.3.6 and 1.3.4

Goal No. 5. Educational leaders who are in the fields of Prek-12 and higher education create meaningful educational processes and experiences.

1. Students will create effective models of communication between leaders and constituents within educational institutions and communities.
2. Students will engage in dialogue that uncovers themes/patterns relevant to education in society.

NCATE Standard 1, Elements 2, 5, 6 and 8; MoSTEP Standard 1.3.1

Goal No. 6. Educational leaders who are in the fields of Prek-12 and higher education develop into transformational/constructivist leaders.

1. Students will develop and implement policy that is inclusive and equitable.
2. Students will write a theoretical analysis that addresses educational reform.
3. Students will learn how to make curricular content culturally relevant and meaningful.
4. Students will construct knowledge that reflects an understanding of the social and institutional context of schooling in the United States.

NCATE Standard 1, Elements 2, 5, 6 and 8; MoSTEP Standard 1.3.5

Goal No. 7. Educational leaders who are in the fields of Prek-12 and higher education create democratic educational institutions.

1. Students will practice reflexivity by keeping a reflection journal.
2. Students will demonstrate an understanding of a learning community that values individual and diverse voices.
3. Students will demonstrate an understanding of democracy as active citizenry participation in educational institutions and communities.
4. Students will explore power relations within educational institutions.
5. Students will formulate ways in which ethical and moral values promote day-to-day democratic practices in educational institutions and communities.

NCATE Standard 1, Elements 2, 5, 6 and 8; MoSTEP 1.3.6

Graduate Studies, School of

School of Graduate Studies

[Administrative Center](#), Room 300F

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Ronald A. MacQuarrie  

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
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 - Interdisciplinary Leadership Certificate in Disability Studies
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- Computer Science
 - Curriculum and Instruction
 - Economics
 - Electrical and Computer Engineering
 - Engineering
 - English
 - Entrepreneurship
 - Geosciences
 - History
 - Mathematics
 - Molecular Biology and Biochemistry
 - Music Education
 - Oral Biology
 - Pharmaceutical Sciences
 - Pharmacology
 - Physics
 - Political Science
 - Psychology
 - Public Affairs and Administration
 - Religious Studies
 - Social Sciences Consortium: Economics, Political Science and Sociology
 - Sociology
 - Telecommunication and Computer Networking
 - Urban Leadership and Policy Studies in Education
- 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.

- Certificate Program Requirements

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, all 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.

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

Doctoral faculty in each participating discipline are listed with the discipline-specific information. The code (A) next to a name indicates adjunct doctoral faculty status. The code (E) indicates emeritus status. The code (D) indicates the faculty member has regular doctoral faculty affiliations in more than one discipline.

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. Any eligible doctoral student who wishes to have his or her name placed on the ballot must contact the School of Graduate Studies office by Sept. 15 of each year. Elections are held by mail and ballots must be returned by Oct. 15 to be counted. Terms of office are for one year and representatives may serve up to three consecutive one-year terms on the Executive Committee.

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 2007 admissions cycle:

Administrative and Information Sciences

Entrepreneurship and Innovation (Henry W. Bloch School of Business and Public Administration)
Public Affairs and Administration (Henry W. Bloch School of Business and Public Administration)
Urban Leadership and Policy Studies in Education (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)
Electrical and Computer Engineering (SCE)

Social and Behavioral Sciences

Economics (College of Arts and Sciences)
Curriculum and Instruction (School of Education)
History (College of Arts and Sciences)
Psychology (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 the first 12 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 coordinating 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 coordinating 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.

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 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:
 - o 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.
 - o 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.

*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.ils.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:

1. 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).
2. Submitting a *one-page narrative statement* outlining professional background and educational plans with the completed application form.
3. Having the following supplementary documentation sent to the UMKC Admissions Office:
 - o *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.

- o *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.
- o *Three letters of recommendation.*
- o *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.
- o *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.

Change of Discipline by Admitted Students

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>.

Interim Advisor

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 coordinating-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 coordinating unit-discipline will automatically become the student's research adviser.

Qualifying Requirements for Full Admission

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.

Research Adviser and Supervisory Committee

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 coordinating 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 consist of at least five members of the doctoral faculty, with a maximum of three from any one discipline and at least one from each chosen discipline. An outside reader may also be included on the supervisory committee as a non-voting member.

With one exception, that no more than one member of an Interdisciplinary Ph.D. student's supervisory committee may be an adjunct doctoral faculty member, and the adjunct member may not be counted toward the mandated representation from each discipline on the committee. Students with religious studies as their coordinating unit discipline may include two adjunct doctoral faculty members from religious studies on their supervisory committees. An adjunct doctoral faculty member can serve as co-chair but not as sole chair of an Interdisciplinary Ph.D. supervisory committee.

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. This process should be completed by no later than the end of the spring semester each year. Failure to meet this requirement may result in a hold being placed on the student's enrollment.

Plan of Study

After being granted full-admission status, 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 will typically be accomplished during the first semester that the student is classified as fully admitted, and *must occur within 12 months* from the time that status has been achieved.

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:
 1. 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
 2. 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.

Residency Requirement

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.

Transfer Credit

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.

Comprehensive Examination

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.

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.

Dissertation Research Proposal Development and Approval

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.

Dissertation and Completion of Degree

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.

Appeal Process

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

Maude Southwell Wahlman, (816) 235-2986, wahlmanm@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, religious studies and sociology.

Core Requirements

Art History as a Coordinating Discipline

Required courses:

ART 5501 Scope and Methods of Art History*
ART 5573 Visual Arts Administration*
Seminars in African, African-American, MesoAmerican and
Native American Arts.

* 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 (coordinating 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 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 Special Discipline-Specific Requirements

Two foreign language requirements: As determined by the Faculty Advisory Committee for each student, who will master a reading knowledge of two foreign languages, for the coordinating-unit discipline of art history and for art history 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 coordinating unit 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. International students must establish English proficiency.

Suggested Compatible Co-disciplines

Other sciences such as chemistry, molecular biology and biochemistry, pharmaceutical science, pharmacology, oral biology, or physics.

Core Program Requirements

For Students with this Discipline as their Coordinating Unit

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).

- 30-credit-hour minimum core of courses and competencies.
 - 13 to 17 credits in cell biology and biophysics (5500-level or higher), including:

- LS-CBB 5596 or 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
- 3 to 6 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)
- 9 to 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 basic 30-credit course core, each student's supervisory 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 equivalent, can be taken at institutions outside UMKC.

For Students with this Discipline 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.

Other Discipline-Specific Special Requirements

Students with this discipline as a coordinating unit must participate in the teaching program of the School of Biological Sciences.

Students with this discipline as a coordinating unit 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 coordinating-unit 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 5562 is required to remain as a doctoral student in this discipline.

For students with this discipline as their coordinating-unit 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.

Comprehensive Examination Regulations

Full-time students with cell biology as their coordinating-unit 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 coordinating-unit 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 coordinating-unit 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.

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.

Admission Requirements

Chemistry as a Coordinating Unit

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.

Recommended 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 Requirements

Chemistry as a Coordinating Unit

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, 5532, 5533, 5534, 5535 and 5541R

Group B: CHEM 5521R, 5522, 5551R and 5571R

Excluded as electives: CHEM 5511, 5512, 5520R, 5530, 5540R, 5590, 5595, 5598, 5599, 5611, 5612, 5613, 5699, 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, 5530 and 5540R may be used to satisfy the "400-level or above" requirement, but not the "5500+ level" requirement. CHEM 5590, 5599 and 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 Coordinating Unit

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 Coordinating Unit

Students develop and pursue a plan of study that includes coursework from the coordinating unit 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 coordinating unit in assessing the interdisciplinary nature of the student's progress.

Comprehensive Examination Guidelines

Chemistry as Coordinating Unit

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 coordinating unit 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. In case 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, 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 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 plan 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 coordinating 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 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 coordinating 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.

- Computer Science: COMP-SCI 291, COMP-SCI 352, COMP-SCI 394R, COMP-SCI 431, COMP-SCI 451, COMP-SCI 470,

COMP-SCI 481.

- 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 451, COMP-SCI 470, Mathematics: (Full Calculus Series: MATH 210 - Calculus I, MATH 220 - Calculus II, MATH 250 - Calculus III).

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) coordinating discipline (12 credits), (b) co-discipline (9 credits), and (c) the rest 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 institution. This credit transfer must be approved by the Ph.D. committee of Computer Science Electrical Engineering department of SCE.

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 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/she is fully admitted. For example, if a student is fully admitted in Fall 2009, then he/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 advisor, 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/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. ID
- c. E-mail
- d. Coordinating 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/She prepares the plan of study and finalizes the composition of his/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 to continue with Ph. D. program.

c. Case for discussion: If a student secures 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: (a) Fundamental part and (b) 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 and Algorithms (Based on COMP-SCI 352)
- 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 where questions will be selected.

Discipline Part: A student must select any TWO of the following areas 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.
- Probability and Statistics with Reliability, Queuing and Computer Science Applications (Chapters 1-5), 2nd Edition, K. S. Trivedi, John Wiley & Sons.

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

- Bioinformatics: Sequence and Genome Analysis by David Mount. Cold Spring Harbor (2nd edition).

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

- Cryptography and Network Security: Principles and Practice", 4/E by William Stallings. Prentice-Hall.

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

- Fundamentals of Database Systems, Elmasri/Navathe, Addison-Wesley.
- Database Management Systems, Ramakrishnan and Gehrke, McGraw-Hill.
- Concurrency Control and Recovery in Database Systems, Bernstein, Hadzilacos, and Goodman. AW. This book is out of print but freely available on the internet (http://www1.sce.umkc.edu/~kumarv/cs570/text_book/complete-CCM-book.pdf)

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

- Introduction to Algorithms. Second Edition. T.H. Corman, C.E. Leiserson, R. L. Rivest, C. Stein. McGraw Hill.
- The Design and Analysis of Computer Algorithms. A.V. Aho, J.E. Hopcroft, J.D. Ullman. Addison-Wesley.

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), L. Kleinrock, John Wiley
- Probability Models, (Chapters 4, 5, and 8.1-8.3) S. Ross, Academic Press
- Probability, Statistics & Queuing Theory, (Chapters 4-5.2) A. Allen, Academic Press
- Probability & Statistics with Reliability, Queuing (Chapters 6-8.4) 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

- Software Engineering: A Practitioner's Approach by Roger Pressman McGraw-Hill.
- Object-Oriented methods: Principles & Practice by Ian Graham, Addison-Wesley

Comprehensive Examination Guidelines

The Comprehensive Exam is administered by the supervisory committee of the candidate. A student can either take a written test or opt for an oral presentation covering both coordinating 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 Computer Science Electrical Engineering 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

Omiunota 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 coordinating unit 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, covering all post-baccalaureate work completed to date.

If the discipline is selected as the coordinating unit 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 1000 on the verbal and quantitative section and 4.00 on the analytic writing section.

In addition, an applicant should make contact with at least one participating doctoral faculty to discuss research/discipline interest and support for his/her application.

Alternate Admission Criteria

An applicant whose admissions profile does not satisfy the Ph.D. general criteria but whose aggregate GRE score of 1000 on the combined verbal and quantitative section and 4.00 on the analytic writing section may be considered for recommendation for admission with curriculum and instruction as either the coordinating-unit discipline or as a co-discipline. In addition to written recommendations, an autobiographical sketch, writing samples and written agreement from a curriculum and instruction doctoral faculty member to serve on the applicant's supervisory committee, an applicant wishing to be considered under alternate admission criteria must submit a letter stating why he or she feels his or her credentials are equal to the GRE criterion of 1000 on the verbal and quantitative and 4.00 on the analytic section.

Provisional Admission Criteria

Applicants with aggregate GRE scores below 1300 may be considered for admission on a provisional basis. Provisional acceptance criteria for doctoral study with curriculum and instruction as the coordinating-unit discipline include:

1. A GPA that meets the general guidelines for the program.
2. A strong endorsement of a doctoral faculty member in curriculum and instruction who can assure the faculty that at least one other curriculum and instruction doctoral faculty member will serve on the student's supervisory committee.
3. Submission of a writing sample of choice.
4. Letters of reference.
5. A persuasive letter from the student.

Doctoral faculty in curriculum and instruction are limited to no more than two provisional doctoral students at a time.

Provisional acceptance criteria for doctoral study with curriculum and instruction as the co-discipline include: a) a GPA that meets the general guidelines for the program, b) a separate letter of justification from a doctoral faculty member in curriculum and instruction and c) a writing sample of choice. A suggested limitation is one provisional student with curriculum and instruction as a co-discipline per doctoral faculty member.

Additionally, all students so accepted, whether with curriculum and instruction as the coordinating-unit discipline or a co-discipline, must submit a plan of study to include 12 semester hours of coursework. The plan must be approved by the student's coordinating-unit discipline faculty adviser and, if curriculum and instruction is the co-discipline, the proposed co-disciplinary study adviser. Students would be expected to maintain a B or better GPA, at the 5500- or 5600-level courses. These courses need to be taken within a two-year time frame to maintain the provisional status. Once these, or other possible stated provisions, have been met, the provisional student automatically will be reclassified to doctoral student status in the discipline.

Qualifying Requirements for Full Admission

All students must have completed 12 hours of 5500- or 5600-level courses at UMKC with grades of B or better in each course to be eligible for full-admission status.

Students admitted under alternate or provisional 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

Urban leadership and policy studies in education, music education, chemistry, psychology, history, mathematics, physics, and public affairs and administration.

Core Program Requirements

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 coordinating or co-disciplinary unit. 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 12-15 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.

Comprehensive Examination Guidelines

The student may obtain discipline-specific information on comprehensive examination guidelines from his or her research adviser.

Economics

Discipline Coordinators

Advising: L. Randall Wray, (816) 235-**5687**, wrayr@umkc.edu

Admissions: Frederic Lee, (816) 235-**2543**, leefs@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 combined score of at least 1,000 on the verbal and quantitative 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, urban leadership and policy studies in education, 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, 5551, 5601, 5602, 5625 and 5688 or SOC-SCI 5688. If the student has not taken the prerequisites to ECON 5601, 5602 and 5625, he/she will be required to take ECON 5501, 5502, 5521, and 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.

Electrical and Computer Engineering

Discipline Coordinator

Khosrow Sohraby, (816) 235-2361, sohrabyk@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 coordinating 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, 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 263 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 coordinating 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.

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 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 coordinating 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 Computer Science and Electrical Engineering Department and the School of Graduate Studies. Contact the discipline coordinator for more information.

Engineering

Discipline Coordinator

Ganesh Thiagarajan, (816) 235-1288, ganesh@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 coordinating-unit discipline or 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 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 1100 (verbal + quantitative) and by ranking at least in the 85th percentile on the quantitative portion of the examination. GRE requirements may be waived if the applicant has passed the fundamentals of Engineering (FE) exam.
3. TOEFL scores are required for international students without prior U.S. degrees. There are two TOEFL tests. One is paper-based; one is computer-based. A minimum score of 550 on the paper-based test (which corresponds to 213 on the computer-based test) is required.
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

Possible co-disciplines include but are not restricted to 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 Coordinating 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 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

	Hours
Coordinating discipline (Engineering)	9
Co-discipline (e.g. Mathematics or Physics)	12
Dissertation research	12
Total beyond M.S. degree (typically 30 hours)	33

Engineering as Co-discipline

A student electing engineering as co-discipline will be required to complete 12 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. Part Two will be an oral defense of the student's dissertation research proposal.

English

Discipline Coordinator

John Barton  , (816) 235-5206, bartonjc@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 coordinating-unit 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 coordinating-unit discipline or co-discipline.

Students who expect to write a dissertation that draws primarily on research in English must apply for English as their coordinating-unit 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 Coordinating-unit 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 coordinating-unit discipline.

Suggested Compatible Co-disciplines

Curriculum and instruction, religious studies, history, psychology and sociology.

Core Program Requirements

All students who list English as a discipline, whether as coordinating-unit 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 coordinating-unit 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 coordinating 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 and 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 SGS 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 Institute for Entrepreneurship and Innovation. 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 all quantitative course work. 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, public administration.

Program Requirements

Students who select entrepreneurship and innovation as their coordinating 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

Raymond Coveney, (816) 235-2980, coveneyr@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 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 grading 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.

Non-native English-speaking applicants seeking geosciences as a coordinating discipline must demonstrate proficiency in English. This requirement can be satisfied by obtaining English proficiency certification from the UMKC English Department.

Suggested Compatible Co-disciplines

Faculty members in the Department of Geosciences conduct research in applied geophysics, engineering 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 and physics. Previous geography Ph.D. students have designated curriculum and instruction as a co-discipline. Other excellent possibilities would include political science, economics, history and sociology.

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 coordinating unit must be taken in the Department of Geosciences. Students who have selected geosciences as a coordinating unit 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. All geosciences students (coordinating or co-discipline) are expected to successfully complete a qualifying examination in their subject area, devised by departmental faculty, by the end of their first two semesters of residency.

Comprehensive Examination Guidelines

Comprehensive examinations of all Ph.D. students who select the Department of Geosciences as the coordinating unit 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 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 coordinating or the co-disciplinary category, will complete courses and conduct research with this principle in mind.

History

Discipline Coordinator

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[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.

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 Feb. 15. The doctoral faculty of the Department of History will review applications and make their recommendations for admission by the end of March. Applications that are incomplete as of Feb. 15, and completed applications submitted after this deadline, may not be considered until the following year.

Applicants who choose History as their coordinating 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 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. These requirements are established on an individual basis.

All applicants for admission must submit:

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.
Coordinating 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

Applicants who do not meet the requirements specified above may be granted provisional admission by the doctoral faculty of the Department of History. An applicant admitted provisionally receives notification of deficiencies and of the conditions which must be met before the doctoral faculty will again consider an applicant for full admission.

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/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/her advisor(s) and approved by the Interdisciplinary Ph.D. Executive Committee.

A student whose coordinating 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 5550 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); HISTORY 5587R (Research Seminar); and two graduate colloquia. 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 coordinating or co-discipline, or changing history from the co-discipline to the coordinating discipline, must fulfill all of the requisite doctoral requirements in history for that level (e.g., number of course hours, distribution requirements, exams).

Comprehensive Examination

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 coordinating 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 coordinating and co-discipline students, it is assumed that each examination will include an 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 coordinating and co-discipline students will be expected to answer questions of an interdisciplinary nature.

A student with History as either a coordinating 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 coordinating 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 50 percent or more of the program of study, or whose dissertation will utilize sources in a foreign language or languages, must demonstrate competency either through a passing satisfactory score on the ETS language examination or through a special examination approved by the student's examining committee.

Those students for whom history comprises less than 50 percent of the plan of study and whose dissertation will not utilize sources in a foreign language will ordinarily not be required to demonstrate language competency. It is strongly urged, however, that all Ph.D. students choosing history as a primary discipline will pursue the development of foreign language skills or equivalent (quantitative) research skills.

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

AREAS	CHRONOLOGICAL/ NATIONAL	TOPICAL/INTERDISCIPLINARY
EUROPE	a. Medieval Europe b. Early Modern Europe	a. Material Culture & Everyday Life b. History of Science or Medicine

	c. Modern Europe	c. Area Focus: Medieval Italy; Britain; Modern Germany d. Women, Gender, & Family e. State Formation & National Identity f. Global Interactions
MIDDLE EAST	a. Medieval Jewish/Islamic b. Ottoman c. Modern Middle East	a. Material Culture & Everyday Life b. Women, Gender, & Family c. State Formation & National Identity d. Comparative Religions e. Global Interactions
LATIN AMERICA	a. Encounter & Colonial b. Post-Independence	a. Identity & Culture b. Women, Gender, & Family c. State Formation & National Identity d. Area Focus: Mexico, Central America; Cuba; Puerto Rico, the Souther Cone e. Global Interactions
EAST ASIA	a. Pre-1600 b. Post-1600	a. Area Focus: Japan; China b. Women, Gender, & Family c. Material Culture and Everyday Life d. History of Science or Medicine e. Comparative Religions f. State Formation & National Identity g. Global Interactions
UNITED STATES	a. Early America b. Modern America - 1800 to the Present	a. Identity & Culture b. History of Science or Medicine c. Area Focus: South; West; Midwest d. Women, Gender, & Family e. Material Culture f. Environmental History g. African-American History h. Global Interactions

Mathematics

Discipline Coordinator

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[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

For students with Mathematics as Coordinating Discipline:

To get full admission, an applicant should have preferably a Master's degree in Mathematics/Statistics, or at least a Bachelor's degree in Mathematics/Statistics with strong records that include graduate level courses in Mathematics/Statistics courses offered by an accredited college or university. An applicant may be given a provisional admission if the above conditions are 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.

For students with Mathematics as 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 an MS degree in Mathematics/Statistics from an accredited college or university with full admission is automatically qualified to the interdisciplinary PhD program in the Department of Mathematics and Statistics. A student who has a BS degree in Mathematics/Statistics with less than 18 hours of graduate work needs to take the deficient graduate courses from the 6 core courses in the department's MS program and receive a GPA 3.0 or better in all the courses taken and a student's grades on all the courses taken can include no more than one C (C means C or C+) and no more than one B- to be qualified. A student who has a BS degree in Mathematics/Statistics without any graduate course work needs to take the 6 core courses in the department's MS program and receive a GPA 3.0 or better in all the 6 core courses taken and a student's grades on all the courses taken can include no more than one C (C means C or C+) and no more than one B- to be qualified.

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.

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 Coordinating Unit

A student can have either mathematics or statistics as the emphasis area when the student declares mathematics as the coordinating unit.

After fully admitted, students must take at least six 5500-level courses (at least 18 credit hours) in mathematics or statistics. 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 coursework requirement set forth by the co-discipline. The student's supervisory committee may require more courses if such courses are appropriate to the student's area of research. The student's dissertation must represent a significant contribution to mathematics or statistics. Refer to the department Web site for more details.

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. Students must receive a GPA of 3.0 or better on all courses taken and a student's grades on all the courses taken can include no more than one C (C means C or C+) and more more than one B-.

The student with mathematics as the coordinating-unit discipline must pass a comprehensive examination in mathematics or statistics after completing nine hours at the 5500-level or above and completing any special requirements and interdisciplinary requirements. An oral examination will be given after a student passes the comprehensive examination.

Molecular Biology and Biochemistry

Discipline Coordinator

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[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 coordinating unit 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. International students must establish English proficiency.

Suggested Compatible Co-disciplines

Other sciences, such as chemistry, cell biology and biophysics, pharmaceutical sciences, pharmacology, oral biology and physics.

Core Program Requirements

For Students with this Discipline as the Coordinating Unit

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.

For Students with this Discipline 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 coordinating-unit 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 coordinating 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 coordinating-unit 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.

Comprehensive Examination Guidelines

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

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[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 a combined score of 1500 on the verbal, quantitative and analytical sections of the GRE with no individual score below 350.
- 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.
- 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 coordinating discipline coordinator and faculty.

Core Program Requirements

Music education will function only as a coordinating unit in the UMKC Interdisciplinary Ph.D. program. Because of this, the following minimum standards apply only to students with music education as their coordinating unit.

Research

Two important goals for students with music education as their coordinating 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 coordinating unit 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 coordinating 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. A new thrust to 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. discipline(s).

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 IPhD 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 the University of Missouri-Kansas City 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 coordinating 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).

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. Under special circumstances (e.g., class standing) consideration may be given to applicants whose GPA is 2.5 to 3.0.
- 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.
- Letter from applicant. The applicant must submit a letter describing why he or she is interested in pursuing 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 coordinating-unit discipline or as a co-discipline. Ph.D. students with oral biology as their coordinating 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.

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:

Course Name/Number	Course Title	Credit Hours
BIO-SCI 5751	Elements of the Scientific Method	1
BIO-SCI 5752	Research Methods in Oral Biology	1-5
RES-ME 5700	Introduction to Research Methodology	2-3
RES-ME 5704	Introduction to Biostatistics	2-3
RES-ME 5706	Dissertation Writing	1

Dissertation credits required (no less than 12)

Course Name/Number	Course Title	Credit Hours
OR-BIO 5699	Dissertation Research	1-12

Examples of additional courses applicable to the program:

Course Name/Number	Course Title	Credit Hours
BIO-SCI 5700	Biomaterials Teaching	2
BIO-SCI 5704	Temporomandibular Disorders: Evaluation and Management	2
BIO-SCI 5706	Growth and Development I	1
BIO-SCI 5707	Growth and Development II	1-2
BIO-SCI 5710	Molecular Genetics and Cranial Facial Biology	2
BIO-SCI 5739	Dental Biomaterials for the Dental Specialist	1
BIO-SCI 5740	Oral Pathology I	2
BIO-SCI 5742	Dental Biomaterials for the Restorative and General Dentist	2
BIO-SCI 5743	Advanced Seminar in Biomaterials	1-2
BIO-SCI 5747	Research Instrumentation Used in Dental Biomaterials	2-4
BIO-SCI 5750	Special Problems in Dental Biomaterials	2-4
BIO-SCI 5759	Special Problems in Pharmacology	2
BIO-SCI 5760	Physiology of Oral Hard Tissues	2
BIO-SCI 5790	Directed Research in Oral Biology	1-6
BIO-SCI 5801	Readings in Immunology	1-3
BIO-SCI 5802	Immunopathology	2
BIO-SCI 5805	Molecular Biology of Oral Microflora	3
BIO-SCI 5830	Structural Characterization of Dental Biomaterials	3
SGS 5550A or SGS 5550B or SGS 5550C	Special Topics in the Responsible Conduct of Research	3
SGS 5550D or SGS 5550E or SGS 5550F	Special Topics in the Responsible Conduct of Research	3

Departmental Research Orientation

Enrollment in BIO-SCI 5751 Elements of the Scientific Method required

- IPhD 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 advisor.

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/oralbiology/oralbiologyseminar.htm>

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 coordinating-unit 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 typewritten or letter-quality printed 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 adviser 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.

Course Name/Number	Course Title	Credit Hours
BIO-SCI 5751	Elements of the Scientific Method	1
BIO-SCI 5752	Research Methods in Oral Biology	1-5
RES-ME 5700	Introduction to Research Methodology	2-3
RES-ME 5704	Introduction to Biostatistics	2-3
BIO-SCI 5710	Molecular genetics and Cranial Facial Biology	2
BIO-SCI 5739	Dental Biomaterials for the Dental Specialist	1
BIO-SCI 5742	Dental Biomaterials for the Restorative and General Dentist	2
BIO-SCI 5743	Advanced Seminar in Biomaterials	1-2
BIO-SCI 5760	Physiology of Oral Hard Tissues	2
SGS 5550A or SGS 5550B or SGS 5550C	Special Topics in the Responsible Conduct of Research	3
SGS 5550D or SGS 5550E or SGS 5550F	Special Topics in the Responsible Conduct of Research	3

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 advisor. 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 advisor 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 coordinating-unit discipline faculty

in order to assess undergraduate preparation for graduate-level study. Deficiencies existing on admission must be discussed with the interim faculty advisor 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 advisors 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 advisors.

Suggested Compatible Co-disciplines

Pharmacology, chemistry, cell biology and biophysics, molecular biology and biochemistry and oral biology.

Core Program Requirements

Pharmaceutical Sciences as the Coordinating Unit

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 coordinating-discipline supervisory faculty. Students will take a minimum of five courses offered by the coordinating-unit discipline. Attendance at all seminars in the coordinating-unit 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 coordinating 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

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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 1000 out of 1600 for verbal and quantitative and 3.5 out of 6.0 for analytical writing or combined 1500 out of 2400 for verbal, quantitative and analytical.

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 Coordinating-unit 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 coordinating 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 400) and Human Biochemistry I and II (BIO-SCI 365 and 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 coordinating 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 coordinating 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

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[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 coordinating 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 Coordinating Unit

For Ph.D. students with physics as the coordinating discipline, the following are the core graduate-level courses:

- PHYSICS 5500 and 5501 Methods of Mathematical Physics I, II
- PHYSICS 5510 and 5511 Theoretical Mechanics I, II
- PHYSICS 5520 and 5521 Electromagnetic Theory I, II
- PHYSICS 5530 and 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 coordinating-unit 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

A student selecting physics as a co-discipline will be required to complete 12 credit hours in physics courses. Up to six of these credit hours may be at the 400 level.

Other Discipline-Specific Special Requirements

Retention in Program

Ph.D. students with physics as their coordinating-unit 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 Coordinating 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 coordinating-unit 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:

1. Mechanics and mathematical physics.
2. Electromagnetism and optics.
3. Modern physics, relativity and quantum mechanics.
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 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

Applicants who designate political science as their coordinating unit must have an M.A. in political science or a related field with a 3.0 GPA and scores ranking above the 70th percentile on either the verbal or the analytical section of the GRE, or a combined score of 1200 in the two sections. All applicants also must 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.

Applicants who designate political science as a co-discipline must have earned at least a 3.0 GPA 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, psychology, sociology and urban leadership and policy studies in education.

Core Program Requirements

Students with political science as their coordinating-unit 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.

Comprehensive Examination Guidelines

These examinations are given twice a year. Further information is available from the department.

Psychology

Discipline Coordinator

Lisa Terre, (816) 235-1066, terrel@umkc.edu

[Click here to see Psychology faculty who are members of the doctoral faculty.](#)

Psychology 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.

Note on Licensure and Use of the Term "Psychologist" or "Counselor": The Psychology discipline is NOT an appropriate choice for people who wish to practice as psychologists or counselors. Moreover, completion of an Interdisciplinary Ph.D. with Psychology as one of its components **cannot** be expected to legitimize the use of the title "Psychologist" or "Counselor" (which are restricted by statute). For students seeking to become license-eligible psychologists, there are two UMKC programs you may wish to consider: The Clinical Psychology Ph.D. program (in the Department of Psychology) and the Counseling Psychology Ph.D. program (in the School of Education).

The Psychology Department recognizes that combining the capabilities of doctoral faculty in more than one discipline is of great value for certain talented and creative students. Selecting psychology as a primary or secondary discipline would be appropriate for students who wish to (a) apply a psychological perspective or theory to a problem generally associated with another discipline, such as the application of social psychological theory to voting behavior (political science) or (b) Integrate knowledge from multiple disciplines to address a particular area of concern (such as combining psychology with linguistics or biology). In short, the psychology discipline is for people who wish to apply psychological perspectives and/or methods to their scholarly pursuits.

The psychology faculty who participate in the Interdisciplinary Ph.D. have a broad range of interests. However, as a small faculty, we can not cover every possible area. As such, our priority will be to take students into the discipline who have an identified area of scholarship that **complements the interests of one of our participating faculty** so that we can provide the quality of educational experience that our students deserve.

Discipline-Specific Admission Requirements

Psychology as Coordinating Unit

Psychology is appropriate as a coordinating unit for Interdisciplinary Ph.D. study for the exceptional student who has a thorough background in psychology. The following minimal requirements must be fulfilled:

1. B.S. or B.A. in psychology or an advanced degree in a related discipline (e.g., counseling, special education).
2. At least a score of 1200 on the verbal and quantitative sections of the GRE is preferred. However, applicants with scores that do not meet this criterion will be considered if there is other exceptional evidence of promise for doctoral study.
3. Undergraduate GPA of 3.0 or better.

Beyond these minimal requirements, students are considered on a case-by-case basis and are required to submit the following information in addition to the standard application for Interdisciplinary Ph.D. study and necessary supporting documentation:

1. An up-to-date resume or vitae.
2. Reprints of all publications, if applicable.
3. Detailed statement of applicant's career and professional goals.

Psychology as Co-discipline

Psychology is appropriate as a co-discipline for the exceptional student who demonstrates a clear aptitude for graduate study of psychology. The following minimal requirements must be fulfilled:

1. Minimum combined score of 1200 on the verbal and quantitative sections of the GRE. However, applicants with scores that do not meet this criterion will be considered if there is other exceptional evidence of promise for doctoral study.
2. Undergraduate GPA of 3.0.
3. B.A. or B.S. degrees in psychology are not required. However, prior to admission, students must have received a grade of B or better or the equivalent in the following undergraduate courses: Introduction to Psychology, Statistics and Experimental Psychology. Comparable coursework taken at other institutions will be considered if the coursework was recently completed.

Application Review Process and Timetable

Admission is considered for fall semester only. Application deadline is Jan. 15 for fall.

Suggested Compatible Co-disciplines

Although a wide range of disciplines are compatible with psychology (such as curriculum and instruction, public affairs and administration, sociology, social science consortium and religious studies), as a small faculty, we can not cover every possible interest area. As noted above, our priority will be to take students into the discipline who have an identified area of scholarship that complements the interests of one of our participating faculty so that we can provide the quality of educational experience that our students deserve. Consult the discipline-specific information form (available from the graduate school) for information on which faculty may have interests in various areas.

Core Program Requirements

The following are minimum requirements for students with psychology as their **coordinating-unit** discipline:

1. PSYCH 5515 Advanced History and Systems of Psychology.
2. 12 hours of coursework in statistics and research methodology (including PSYCH 5516, 5517, 5601, and one additional research/statistics course approved by the student's supervisory committee). The three required statistics and research courses must be completed in the Department of Psychology at UMKC).
3. 15 hours of coursework in general breadth areas of psychology, selected from the following list: PSYCH 5505, 5507, 5512, 5518, 5521, 5522, 5533, 5622, 5631 and 5632). Other courses may be substituted to fulfill this requirement, with the approval of the student's supervisory committee. Up to six of these hours may be completed as directed readings (PSYCH 5597) within the student's area of specialization.
4. All students are required to complete a minimum of a one-credit-hour course on professional ethics. Students can complete this requirement by taking the courses offered by the graduate school, such as the Responsible Conduct of Research (SGS 5550A, 5550B, 5550C, 5550D, 5550E, or 5550F), or by completing another course approved by the student's supervisory committee.
5. All required courses must be completed with a grade of B- or better.
6. In addition to the above coursework, students are required to complete at least 24 hours of research credit. This will consist of 12 credits of PSYCH 5590 (Directed Research), followed by 12 credits of PSYCH 5699 (Research and Dissertation). At least 12 of these credits must be completed with the student's primary mentor.

The following are minimum requirements for students with psychology as their co-discipline:

1. PSYCH 5515 Advanced History and Systems of Psychology.
2. Nine hours of coursework in general breadth areas of psychology selected from the following list: PSYCH 5505, 5507, 5512, 5518, 5521, 5522, 5533, 5622, 5631, and 5632). Other courses may be substituted to fulfill this requirement, with the approval of the student's supervisory committee. Up to three of these hours may be completed as directed readings (PSYCH 5597) within the student's area of specialization.
3. All students are required to complete a minimum of a one-credit-hour course on professional ethics. Students can complete this requirement by taking the courses offered by the graduate school, such as the Responsible Conduct of Research (SGS 5550A, 5550B, 5550C, 5550D, 5550E, or 5550F), or by completing another course approved by the student's supervisory committee.
4. All required courses must be completed with a grade of B- or better.

Psychology as the coordinating-unit discipline requires a minimum of 55 total hours (including 31 didactic hours and 24 research and dissertation hours). Psychology as the co-discipline requires a minimum of 13 total hours.

Other Discipline-Specific Special Requirements

Prior to and independent of their dissertation, Interdisciplinary Ph.D. students with psychology as a coordinating or co-discipline must complete a piece of work of a psychological nature judged by their supervisory committee to be of a publishable quality. Normally this project will be completed during the student's fourth semester of enrollment in supervised research (PSYCH 5590).

Comprehensive Examination Guidelines

The comprehensive examination will be designed by the student's supervisory committee to demonstrate proficiency in psychological principles and their relationship to the student's co-discipline(s). A wide range of formats is acceptable for the comprehensive examination. For example, in lieu of a traditional essay exam, a student, with the approval of his or her supervisory committee, may choose to conduct an independent investigation of an approved topic within the student's area(s) of interest that results in the preparation of a publishable paper adhering to the format of *Psychological Bulletin* or *Psychological Review*. Comprehensive examinations may be integrated with those in other disciplines.

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

Due to course sequencing, the doctoral faculty committee in this discipline will ordinarily only consider applications for admission for the fall term. To have their credentials included in the review process, applicants should submit GRE scores and all other necessary supporting documentation no later than Feb. 1.

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 IPh.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 Disciplines

Entrepreneurship and innovation, urban leadership and policy studies in education, curriculum and instruction, economics, history, psychology, political science and sociology.

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

And 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 5610, may be waived if a student has had substantially equivalent courses.

Comprehensive Examination Guidelines

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 **Feb. 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 coordinating 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, political science, psychology, and sociology.

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 coordinating-unit discipline is religious studies includes a minimum of 18 hours of coursework in religious studies, including the four core courses listed below, plus coursework in the student's co-discipline(s) [not to exceed 60 percent of the total coursework 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 5680RS - Doctoral Colloquium (three credit hours)

The discipline's core requirement for a student whose co-discipline is religious studies includes RELIG-ST 5510, 5584RS, 5586RS, and 5680RS, plus other courses recommended by the religious studies member(s) of the student's supervisory committee.

Students who have taken any of the three 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 Requirements

All students with religious studies as either coordinating 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.

Comprehensive Examination Guidelines

The student with religious studies as his or her coordinating 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 Sciences Consortium: Economics, Political Science and Sociology

Discipline Coordinator

Doug Bowles, (816) 235-1394, bowlesdh@umkc.edu

Doctoral Faculty Participation

See the individual entries for [economics](#), [political science](#) and [sociology](#).

Social Sciences 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 Sciences Consortium 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 Coordinating Discipline

Curriculum and instruction, economics, geosciences (with a geography focus), history, political science, psychology, public affairs and administration, sociology and urban leadership and policy studies in education.

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 (SocSci 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).

The Seminar in Research Methodology (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.

Comprehensive Examination Guidelines

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.

Sociology

Graduate Program Coordinator

Jeffrey Bennett, (816) 235-**2975**, bennettjs@umkc.edu

[Click here to see Sociology faculty who are members of the doctoral faculty.](#)

Sociology 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.

Note: The Sociology Discipline is currently accepting applications for the co-discipline only.

Discipline-Specific Admission Requirement

In addition to the general criteria for admission, applicants selecting sociology as their coordinating discipline must have an M.A. or M.S. in sociology or in a related discipline. Additionally, applicants must submit samples of written work and a preliminary proposal for their interdisciplinary plan of study (e.g., intended co-discipline, academic emphasis areas within sociology, intended dissertation research area). Applicants must also have three written recommendations from professors or practitioners in the field sent to the Admissions Office. Applicants must have a GPA of 3.0 or above in their M.A./M.S. program.

Applicants who designate sociology as a co-discipline must submit samples of written work and a brief statement (no more than three pages) indicating a preliminary proposal for their interdisciplinary plan of study (e.g., intended coordinating discipline, academic emphasis areas, intended dissertation research area). This statement should address how sociological studies will contribute to achievement of their academic and professional goals.

Applicants selecting sociology as either their coordinating unit or their co-discipline will be considered for admission only for the fall term. The deadline for receipt of completed applications and supporting documents is Feb. 1.

Admissions recommendations will be made by March 15. It should be understood that meeting the minimum admissions requirements is not a guarantee of admission. Applicants must be matched to faculty resources since doctoral supervision represents a substantial commitment on the part of faculty. Applicants are strongly encouraged to talk with one or more department faculty during the application process.

Alternate Admission Criteria

Applicants not meeting the minimum admission requirements nor having sufficient academic preparation (as listed in the following section) may be considered for provisional admission by the department if the faculty sees high potential for advanced work from the other credentials of the applicant. Evidence of high potential might be pertinent work or research experience, published papers or extremely high achievements in other criterion areas for admission. In any case, the required GPA must be 3.0 or higher in the M.A./M.S. program.

Qualifying Requirements for Full Admission

Prerequisites for full admission include prior graduate courses in the following core areas:

- Classical Social Theory
- 20th Century Social Theory
- Qualitative Research Methods
- Quantitative Research Methods
- Intermediate Statistics
- M.A./M.S. thesis or a research project/report (SOCIO 5595, six additional credit hours)

Provisional admission for candidates who have not yet met these requirements will be changed to full admission when a candidate passes each of these courses with a B (3.0) or higher.

Suggested Compatible Co-disciplines

English, history, art history, religious studies, economics, political science, social science consortium, psychology, public affairs and administration and urban leadership and policy studies in education.

Sociology as a Co-discipline

Those students with sociology as a co-discipline will take a minimum of 15 hours in sociology. Prior to full admission, they will have been expected to have taken and passed with a minimum of 3.0 the following courses:

- SOCIO 5501 Social Theory I (three hours)
- SOCIO 5502 Social Theory II (three hours)

These two required courses are included in the 15 required hours in sociology.

Other Discipline-Specific Requirements

Students are expected to maintain a GPA of 3.0 or higher in their coursework within the Ph.D. program. If the GPA falls below this level, students will be on probation and have one semester to raise their GPA to 3.0 or above.

Comprehensive Examination Guidelines

Students with sociology as a *co-discipline* must successfully complete three hours of comprehensive written examination within a substantive area of sociology elected in the program of study.

All comprehensive examinations must have an interdisciplinary dimension in which students will be expected to demonstrate their ability to integrate and apply the perspectives of both disciplines to social problems.

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 coordinating 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, 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 coordinating 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 421A / 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 coordinating 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.

Urban Leadership and Policy Studies in Education

Discipline Contact

Gina Sanders, (816) 235-2716, sandersgm@umkc.edu

[Click here to see Urban Leadership and Policy Studies in Education faculty who are members of the doctoral faculty.](#)

Urban Leadership and Policy Studies in 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

Applicants who designate urban leadership and policy studies in education as their coordinating unit 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, covering all post-baccalaureate work completed to date.

Applications are normally only reviewed once a year, for admission beginning with the next summer or fall term. To be considered, applications must be submitted to the Admissions Office by Feb. 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.

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, the social science consortium and sociology.

Core Program Requirements

Students with urban leadership and policy studies in education 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 coordinating-unit 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 urban leadership and policy studies in education as either the coordinating-unit 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.

Comprehensive Examination Guidelines

Students with urban leadership and policy studies in education as the coordinating-unit discipline must pass a comprehensive examination including both the coordinating-unit discipline and the co-discipline areas.

Law, School of

School of Law

School of Law

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Jeffrey Thomas  

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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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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>.

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.

General Information

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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.

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 recently renovated E. E. "Tom" Thompson Courtroom, located on the ground floor, is 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 its courtroom and a unique viewing theatre above the 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. It is also 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 increase 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 Resource Center

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 creating an ElectronicResourceCenter. The Center, comprising over forty computers, provides a teaching lab for instruction in the use of legal research databases, and access for research to the Internet, printing, and numerous database services. A fee is charged for some law student printing and for all other patron printing. The ElectronicResourceCenter also provides a scanner and a dedicated workstation for the visually impaired. In addition to access to the ElectronicResearchCenter, each law student receives a password free of cost 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 Electronic Resource Center hosts a free laptop clinic, where law students can go with computer and technology problems, many of which can be fixed at the clinic.

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 and law firms located in both Kansas and Missouri and the judiciary.

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, as is the first African-American Chief Justice of the Missouri Supreme Court. 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 LawSchool. 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 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

The Office of Continuing Legal Education is the law school's principal contact with the practicing bar and is a nonprofit revenue-generating unit for the University. The CLE office produces domestic and international educational programs, national audio conferences, practice manuals and other educational material designed to promote the competency of the bar and other professions in support of the practice of law.

UMKC law school students may attend any UMKC CLE-sponsored event 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 contact with potential employers.

The CLE office coordinates ABA-accredited for-credit study abroad programs to China and Ireland. These programs are designed to broaden law students' understanding of different legal systems while introducing them to the cultures on which those systems are built. The CLE office also 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 two cash prizes given exclusively to UMKC law school students: the Estate Planning Prize Competition and the Heart of America Tax Institute Prize.

Career Services

The Law School Career Services Office (CSO) assists students and alumni obtain professional employment. Law firms, government agencies, businesses, the judiciary and other employers seeking law graduates for permanent positions use the Career Services Office's resources to hire UMKC School of Law graduates. The Office also assists students seeking part-time and summer clerking opportunities. The Office maintains a library of employment materials for the use of law students and alumni. We have a strong on-campus interviewing program allowing many employers to come to the LawSchool to recruit our students for positions with prosecutors' and public defenders' offices, legal service organizations and federal and state government agencies, in addition to law firms. Branches of the United States military come on campus to recruit lawyers for service in the Judge Advocate General's Corps.

The University of Missouri-Kansas City School of 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 LawSchool allows military recruitment on Campus. However, the Law School remains committed to the policy of non-discrimination. We take steps to ameliorate the adverse effect of any on-campus interviewing by military recruiters and provide all of our students with a hospitable environment in which to apply and interview for positions.

CSO provides individual career counseling to students and alumni, as well as advice and assistance in resume preparation and interviewing skills. The Office sponsors a series of programs to introduce students to a variety of career opportunities. We offer mock interviews with practicing attorneys.

We sponsor an annual Volunteer Fair to provide students with information about service opportunities in the community. The Office works closely with the Public Interest Law Association, which raises funds to provide public-interest law internships to selected law students. These funds provide stipends for law students entering their second or third year to work in public interest organizations. UMKC students have been placed at the Public Interest Litigation Clinic, the Missouri Public Defender's Office and the Kansas City, Missouri, City Attorney's Office, as well as other organizations.

CSO collaborates with the Kansas City Metropolitan Bar Association's Summer Law Internship Program and Black Law Students Association to introduce minority high school students to the rigors of college life in general and to law school student life specifically. The Office 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.

Career Opportunities

UMKC Law School graduates have a wide variety of job opportunities available. The largest number 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. Many firms offer a general practice that spans corporate, civil and criminal law. Some law graduates do not want to practice law in a traditional law firm setting, desiring instead to use their legal skills in the business world as executives, bankers and corporate tax experts. Therefore, corporations, accounting firms, title companies, banks and insurance companies recruit them. The legal departments of state and municipal government agencies also employ graduates. 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 Environmental Protection Agency, hire graduates to staff their legal departments. Other graduates become law clerks for judges or administrators in law schools. Some become professors of law.

The Career Services Office assists our students and alumni in many ways with planning careers and obtaining positions which utilize the Juris Doctor degree.

Academic Rules and Regulations

Academic Rules and Regulations for Juris Doctor Degree Program

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- Appeal of Grades
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Attendance

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 LawSchool 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

Acceleration

Juris doctor degree students may graduate in two and one-half years. To do so requires attending at least two summer sessions in order to accumulate enough credit hours to meet the 91-credit-hour requirement and the residency requirement. Each summer session may be considered one-half of a semester toward satisfying the residency requirement.

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

Snow Policy

University policy mandates that the University will always remain open even during inclement weather, and classes will generally be held. In the event of a major snow or ice storm creating potentially dangerous conditions, a decision may be made to suspend some or all classes. Announcement of such a decision will be made on local radio and TV. Efforts will be made to establish a call-in line for students to determine whether a class or classes will be held.

Alcoholic Beverages

There shall be no drinking or serving of alcoholic beverages in the law building or on other campus property without the approval of the vice chancellor for administrative affairs.

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.

Parking

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." A number of metered spots are in the lot and may be used by students who have registered their vehicles. After 4:30 p.m., a portion of the lot is open to students provided they have purchased a student parking permit. Students must register vehicles with the Campus Police.

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

The School of Law has a full range of professional and social activities available for students. These activities provide an opportunity for students to get to know one another as well as to interact with faculty and members of the legal community.

American Bar Association/Law School Division

The ABA/LSD is a national organization open to all law students. It was founded to encourage law students' participation in the efforts of the organized bar in forming and revising standards of legal education. Through the division, students have a voting influence on the positions taken by the ABA in regard to current issues and problems facing the legal profession. Historically, the division has enjoyed strong support from UMKC law students, many of whom have become regional and national officers.

American Civil Liberties Union/Student Chapter

The UMKC student chapter of the ACLU is open to all law students. The student chapter exists to raise awareness of civil liberties issues in both current events and the law; and as a means of gaining valuable experience through volunteer work with ACLU of Western Missouri & Kansas.

Animal Law Society

The purpose of the Animal Law Society is to foster critical thought and debate about the application of animal-rights principles to the law. The Society embraces the principles that the common law classification of non-human animals as personal property must be reformed to increase the legal status of non-human animals in order to assure them greater protection under the law; that the use of animals for scientific purposes is not beyond moral criticism; and that human beings have a responsibility to protect non-human animals and their natural habitats. The Society seeks to promote an awareness of these principles and to further their application through its activities.

Art Law Society

The purpose of the Art Law Society is to connect law school students and faculty to art related events; to spread awareness of legal issues that individuals and businesses involved in the arts could encounter; and to benefit those individuals and businesses through community service, while connecting them with individuals and organizations who can assist them with Art Law issues. The Society holds an art auction annually to benefit and spread awareness about Kansas City Volunteer Lawyers and Accountants for the Arts (KCVLAA).

Asian/Pacific Islander Law Students Association (APILSA)

The purpose of the APILSA is to articulate and promote the professional needs and goals of Asian and Pacific Islander law students by utilizing the collective resources of the law school and the legal community; to focus upon the relationship of the Asian and Pacific Islander attorneys to the American structure; to instill in the Asian and Pacific Islander law students a greater awareness of the commitment to the needs of the Asian American community; to foster and encourage professional competence; and to do all things necessary and lawful to accomplish these purposes.

Association of Women Law Students (AWLS)

AWLS is open to all law students and was formed to promote the role of women in the legal profession and its bar associations, to encourage the acceptance of qualified women in the academic and legal communities, and to exert an influence in the law, the profession, the school and the community.

BigWigs

The BigWigs is a student organization that works in conjunction with Big Brothers Big Sisters in an effort to recruit Bigs within the law school, foster a community of information-sharing about the program, and organize fun activities where Bigs who attend UMKC Law can get together with their Littles. The only requirements for membership in this organization are enrollment at UMKC School of Law and participation in Big Brothers Big Sisters in the Kansas City area.

Black Law Students Association

BLSA, founded in 1968 by black law students, is a national organization representing more than 90 percent of the nation's African-American law students. Its goals are to articulate and promote the professional needs and goals of African-American law students; to focus upon the relationship of the African-American attorney to the American legal system; to instill in the black attorney and law student a greater awareness of the importance of commitment to the needs of the African-American community; and to influence American law schools, legal fraternities and legal associations to use their expertise and prestige to bring about change within the legal system in order to make it responsive to the needs of the African-American community. The school's BLSA chapter works closely with local bar associations and area leaders to strengthen the role of the black lawyer in the Kansas City community.

Business and Tax Law Society

The Business and Tax Law Society is an organization of law students interested in Business and Tax Law.

Christian Legal Society

Founded upon Alexis de Tocqueville's notion that as a Judeo-Christian nation, America will remain great only as long as America remains good, the CLS seeks to discern the parameters of the ethical vitality and moral essence of the law. Open to all students, the CLS offers opportunities for spiritual and temporal support as well as searching dialogue and well-earned rest and fellowship during each academic year.

Constitutional Law Society

The purpose of the Constitutional Law Society of the School of Law is to explore and inform students about constitutional law. The Constitutional Law Society endeavors to meet its objectives by sponsoring speakers and workshops providing insight into the area of constitutional law.

Emissaries

The Emissaries are the official student public relations team for the School of Law. Emissaries are chosen by faculty, staff and students from a select pool of applicants. This group works closely with the Law School administration in such areas as recruitment, representation of the Law School community at special events and serving as tour guides to prospective students and visitors. Emissaries enjoy a good deal of contact with alumni and members of the Kansas City metro law community. They also participate in various community service activities.

Environmental Law Society

The Environmental Law Society is a group for those who are interested in environmental issues, especially issues in the Midwest, particularly in the Kansas City metro area. Moreover, the Environmental Law Society is available to assist and educate students who are interested in pursuing a career in Environmental Law. It is an organization valuing service and the welfare of the community in relation to its environment.

Family Law Student Association

The purpose of the Family Law Student Association is to provide law students with information and experiences within the field of family law, allow students to become acquainted with professionals in the field, promote student interest in family law and encourage family law education throughout the UMKC Law School student body.

Federalist Society

Founded in 1982, the Federalist Society has 110 chapters at law schools across the country. Its membership consists of students who are interested in legal and political topics with an emphasis on separation of powers and traditional values and views about the law. The UMKC chapter presents speakers and sponsors forums on a variety of issues. An active and growing lawyer's chapter cooperates with the UMKC chapter.

Health Law Society

The purpose of the Health Law Society is to help students of UMKC Law School gain knowledge of current issues in the world of health care and to promote education of those issues.

Hispanic Law Students Association (HLSA)

The Hispanic Law Student Association serves to protect and advance the rights of Hispanic students and other minorities in our law schools as well as local, regional, and national communities; to instill greater awareness of the cultural differences, similarities, and needs of the Hispanic population; to provide educational support and social opportunities for students interested in Spanish language and culture; and to encourage diversity and foster positive changes within the legal academic and professional communities.

Honor Court

The Student Bar Association of the Law School has adopted an honor code prohibiting any conduct which would give an unfair advantage to any student in any academic matter or in any matter relating to academic credentials. The honor code has been posted on the school's World Wide Web site.

The honor court hears all cases involving alleged violations of the honor code. It is composed of a chief justice and four associate justices appointed from the student body by the president of the Student Bar Association with the approval of its board of governors.

Intellectual Property Law Society

The Intellectual Property Law Society is an organization of law students interested in patent, copyright, trademark or trade secret law. The primary purpose of the IPLS is to promote opportunities for its members to learn more about intellectual property issues through course offerings, participation in moot court competitions, interaction with local practitioners and summer clerkships.

International Law Society

The International Law Society offers students the opportunity to focus on the many facets of law from an international perspective, from the practicalities of a legal practitioner to the theoretical applications of multinational dispute settlements. The current explosion of trade opportunities, worldwide environmental concerns and new partnerships in political and economic arenas present exciting opportunities for tomorrow's lawyers to shape the future of global cooperation.

J. Reuben Clark Law Society

The Mission of the School's Alexander Doniphan Student Chapter of the J. Reuben Clark Law Society is to affirm the strength brought to the study of the law by a law student's personal religious conviction. The members strive through public service and diligence in their studies to promote fairness and virtue founded upon the rule of law.

Jewish Law Students Association

The purpose of the organization is to meet the needs of Jewish law students at the University of Missouri-Kansas City School of Law and to promote awareness and understanding of the Jewish people, their religion, traditions and of the State of Israel.

Legal Fraternities

Chapters of three national legal fraternities, Delta Theta Phi, Phi Alpha Delta and Phi Delta Phi, have been established at the Law School. Through their professional programs and social activities, members of the student body have the opportunity to develop professionally and to interact socially with members of the bench, bar, Law School faculty and fellow students.

Missouri Association of Trial Attorneys (MATA)

The UMKC MATA chapter was formed with the basic ideals of the statewide organization and the national organization, known as the Association of Trial Lawyers of America. These ideals and goals include seeking justice, protecting those who deserve redress from injury, promoting the public good through concerted efforts to secure safe products and upholding the honor and dignity of the legal profession.

Midwestern Innocence Project Student Organization (MIPSO)

MIPSO is a part of the Mid-Western Innocence Project (MIP). Both organizations seek the exoneration of those who are incarcerated but are actually innocent. MIPSO assists MIP by having monthly clinics to screen petitions and planning awareness programs to educate the law school community about the problem of wrongful convictions. Its Web site address is: www.mipsoumkc.com.

Moot Court Board

Students who wish to further develop their appellate argument abilities may participate in the school's Appellate Advocacy Program, which is administered by a student moot court board under the general supervision of the faculty. The top 16 students in the Fall Appellate Advocacy II Competition are invited to participate in the Ellison Moot Court Competition, which provides the means for selection of students to represent the school in national appellate advocacy competitions. Membership on the board is open to students who participate in the Ellison Competition.

National Lawyers Guild

The National Lawyers Guild is a nationwide organization of lawyers, legal workers and law students with 96 chapters throughout the United States. It was founded in 1937 as the country's first integrated bar association. The guild is dedicated to seeking social justice, social equality and freedom to dissent to the end that human rights shall be regarded as more sacred than property interests.

Non-Traditional Law Students Association

The Non-Traditional Law Students' Organization coordinates social and mutual-support events and initiates discussions with academic and administrative staff members who may be able to assist with matters unique to these individuals whose student lives are complicated by other, "nontraditional" roles, responsibilities and concerns.

UMKC OUTLaws, LGBT Law Student Group

The group, open to all law students regardless of sexual orientation, seeks to create an environment where students participate in discussions with practitioners regarding LGBT legal issues, network at bi-monthly meetings with local LGBT legal professionals, explore practice areas, and develop outreach opportunities to LGBT groups. The presence of the LGBT group raises awareness of LGBT issues at the law school and campus and promotes an opportunity for constructive dialogue regarding LGBT issues.

Public Interest Law Group

The purpose of the Public Interest Law Group at UMKC is to foster awareness by students, faculty, administrators and alumni of public-interest law through financial support, educational programs and community outreach. As a student-driven nonprofit organization, the group is dedicated to the principle that law students should be encouraged to work in the public interest and that no student or graduate who wants to work in public interest law should be unable to do so for economic reasons. The group is affiliated with the National Association for Public Interest Law and administers two primary program areas: grants for summer internships and loan repayment assistance for graduates.

Securities Club

The purpose of the Securities Club of the School of Law is to explore and inform students of career options in the field of securities law. The Securities Club endeavors to meet its objectives by sponsoring speakers and workshops providing insight into the securities industry.

Sports and Entertainment Law Society

The purpose of the Sports and Entertainment Law Society of the School of Law is to explore and inform students of career options in the field of Sports and Entertainment Law.

Student Bar Association

The SBA is a member of the Law Student Division of the American Bar Association and the governing body of the Law School. It is headed by a student board of governors, which is elected annually. The board speaks for the student body as a whole, appoints committees, provides funding for all Law School student organizations and plans some of the Law School's largest and most widely attended events.

The \$1.98 Law Revue

This annual Law School theatrical production is written, produced, directed and presented by law students and faculty. It is a humorous look at the Law School, the law in general and current events. The show involves the combined talents of writers, actors, singers, stage hands, publicists, artists, makeup and costume artists and musicians. The entire law school community looks forward to the annual production.

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 KauffmanCenter 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 entites (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

Juris Doctor Degree

- Admissions
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 - Graduation Requirements
 - International, Comparative & Foreign Law
 - Emphasis Area Description
 - Admission Requirements
 - Program Requirements
 - Litigation
 - Emphasis Area Description
 - Emphasis Area Requirements

- Admission Requirements
- General Requirements
- Curriculum Requirements
- Graduation Requirements
- Urban, Land Use and Environmental Law
 - Emphasis Area Description
 - Emphasis Area Requirements
 - Admission Requirements
 - General Requirements
 - Curriculum Requirements
 - Graduation Requirements
- J.D./MBA and J.D./M.P.A. Combined-degree Programs
- Combined-Degree (J.D./LL.M.) Programs

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.

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.

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 Randy James Commitment to Justice Scholarship

A scholarship fund established by Randy James, a 1982 graduate of the School of Law, for entering law students with demonstrated commitment to justice and to representing individuals in order to protect their rights, a commitment the donor holds in his career as a lawyer. Applicants must demonstrate superior academic achievement (minimum undergraduate gpa of 3.2) and an on-going commitment to and involvement in advancing justice and protecting individual rights. The scholarship may be renewed if the recipient maintains a 3.0 after the first year and after each subsequent semester and continues to demonstrate a commitment to justice, service and individual rights. Applicants should submit a statement demonstrating how they meet the scholarship criteria.

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 Special Admissions 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.

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. Stipends take educational fees, books and living expenses into consideration. 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 (KCMBBA) for 24 years. Upon her retirement, the KCMBBA 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 KCMBBA "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, Shalton, Flanigan, Suelthaus 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 under-represented 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.

Wal-Mart Foundation Minority Scholarship

The Wal-Mart Foundation provides a full tuition and fees scholarship to an entering full-time law student. Preference is given to minority students coming from a racial or ethnic background which is under-represented in the practice of law. Although some consideration may be given to financial need, a recipient will be chosen based primarily on scholastic merit and evidence of leadership and commitment to service. Awards may be renewed each year subject to academic performance criteria. Selection is based on an application and interview process.

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.

Kenner & Kavanaugh Scholarship

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. Selection is based solely on admission files.

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.

Law Enforcement Scholarship

This annual scholarship will be awarded to one or more students pursuing a law degree at UMKC with financial need who are currently employed with a law enforcement agency or who have just left the agency to pursue a law degree. Preference will be given to students whose experience is with a law enforcement agency in the Kansas City metropolitan area. If no current students meet these requirements, the scholarship may be awarded to other students with financial 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 Bachelor's degree, a 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.

Shook, Hardy & Bacon Diversity in Law Scholarship

Established by the Shook, Hardy & Bacon Foundation beginning Fall 2008, the intent of this scholarship is to provide significant dollars for recruitment of person(s) to UMKC School of Law in order to increase diversity within the legal profession. The commitment is to fund one student through three years of his/her legal education. Selection is based on admissions materials.

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

Academic Enrichment Award

The Law School recognizes graduating students who have served as teaching assistants in the Academic Enrichment Program for their significant contributions to enhance the academic achievement of other students.

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.

Emissary Award

The Law School recognizes the graduating students who have served as its Emissaries for their outstanding service to the school.

The Sanford B. Ladd Award Fund

This fund provides an annual cash prize to the student earning the highest grade in Real Estate Finance.

The Ralph S. Latshaw Award Fund

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.

The Annette Moore Award

Fund 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, and 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.

Structured Study Group Leader Award

The Law School recognizes the graduating students who have served as teaching assistants in its Structured Study Group Program for their exemplary service in that capacity.

The 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 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 Structured Study Group Program, which is based on the innovative Supplemental Instruction (SI) model developed by the campus Center for Academic Development, offers first-year students 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.

The Academic Enrichment 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 Academic Enrichment 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.

Academic Enrichment 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 weekly group meetings focusing on learning styles, learning strategies, time management and development of skills necessary for law school success. Students also meet weekly with Academic Enrichment teaching assistants. The year-long program is open to all students.

Many of the materials used in Academic Enrichment are available to students through the program's Web site at <http://www.umkc.edu/law/enrichment>. Periodic lectures covering the topics addressed in Academic Enrichment are provided for all students through the Academic Enrichment Lecture Series.

Juris Doctor Degree Program

Program Description

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.

Areas of Study

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/inns.htm>), 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 of \$50, 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 \$100 nonrefundable seat reservation fee is due June 15, 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.

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 in an approved institution, 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

Student Learning Outcomes

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.
- 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 8451 Property I	(3)
LAW 8511 Torts	(3)

Spring Semester (14-15 credit hours)

LAW 8521 Civil Procedure I	(3)
LAW 8631 Constitutional Law I	(3)
LAW 8502 Contracts II	(3)
LAW 8532 Introduction to Law and Lawyering Processes II*	(2-3)
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 will be assigned to, and others will 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)
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Required to be Taken During the Second or Third Year:

LAW 8635 Criminal Procedure I	(3)
LAW 8721 Commercial Transactions, LAW ???? Sales and Leasing or LAW 8720 Secured Transactions	(3)

LAW 8731 Professional Responsibility	(2)
A course that fulfills the school's jurisprudential requirement	(2-3)

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

(3)

Graduate Requirements

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. Although three years of law study are usually required, students may graduate in two and one-half years. To do so requires attending at least two summer sessions. Each summer session may be considered one-half a semester for residency purposes, provided at least 10 classroom hours are completed in the two summer sessions.
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. Regular and punctual class attendance.
7. 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

Admission 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.

General Requirements

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.

Curriculum Requirements

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
 - 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
 - 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)
- o Legal Research (if approved by student's emphasis area adviser on the basis that the student's writing relates directly to litigation)
- o Missouri Civil Procedure
- o Seminar in the Ethics of Criminal Advocacy
- o Wrongful Convictions I
- o Wrongful Convictions II
- o 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.

Graduation Requirements

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

Admission 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.

General Requirements

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.

Curriculum Requirements

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)

Graduation Requirements

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

Admission 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.

General Requirements

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.

Curriculum Requirements

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.

Graduation Requirements

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

Admission 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.

General Requirements

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:

- Business Planning
- Negotiating Mergers & Acquisitions
- Real Estate Transactions Planning Workshop
- 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.

Curriculum Requirements

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
- 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 student 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.

Graduation Requirements

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

Admission 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

General Requirements

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
- 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.

Curriculum Requirements

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
 - 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
 - Jackson County Prosecutor Clinic
 - Jackson County Prosecutor Clinic - Family
 - Legal Aid Clinic
 - Missouri Attorney General Clinic
 - National Labor Relations Board Clinic
 - Public Defender Trial Clinic
 - United States Attorney's Office Law 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
- o Famous Trials
- o Global Legal Systems
- o Independent Study (if approved by student's litigation adviser on the basis that the course of study relates directly to litigation)
- o Introduction to the Resolution of International Commercial Disputes
- o Jury Selection
- o The Jury: Practice and Perspectives
- o Law Review (if approved by student's litigation adviser on the basis that the student's note or comment relates directly to litigation)
- o Legal Research (if approved by student's litigation adviser on the basis that the student's writing relates directly to litigation)
- o Missouri Supreme Court and Constitution
- o Post Conviction Remedies
- o Seminar in the Ethics of Criminal Advocacy
- o Trans-National Litigation
- o Wrongful Convictions
- o 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.

Graduation Requirements

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

Admission 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.

Program Requirements

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

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>.

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.

Scholarships

Foreign Master of Laws Degree

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

Foreign Master of Laws Degree

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 degree). 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

Master of Laws Degree for Foreign Students

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>

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

Foreign Master of Laws Degree

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

Foreign Master of Laws Degree

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 8 757R 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.

Medicine, School of

School of Medicine

Hospital Hill Campus
2411 Holmes Street
(816) 235-1808
Fax: (816) 235-5277
medicine@umkc.edu

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<http://research.med.umkc.edu/>

Mailing Address

University of Missouri-Kansas City
School of Medicine
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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)
Larry A. Carver, M.D. (Western Missouri Mental Health Center)
Diana Dark, M.D. (Saint Luke's Hospital Programs)
Timothy P. Hickman, M.D., M.Ed., MPH (Council on Curriculum)
Kevin Kelly, M.D. (Children's Mercy Hospital Programs)
Jill A. Moormeier, M.D., M.P.H. (Graduate Medical Education)
Brenda Rogers, M.D. (Student Affairs)
Mark T. Steele, M.D. (TrumanMedicalCenter)
Susan B. Wilson, Ph.D. (Office of Cultural Enhancement & Diversity)

Chairs:

John Foxworth, Pharm.D. - (Faculty Council)
Daryl A. Lynch, M.D. (Council on Evaluation)
George R. Reisz, M.D. (Council of Docents)

Assistant Deans:

Alice Arredondo, M.S.Ed., (Admissions and Recruitment)
Richard W. Trullinger, Ph.D. (Allied Health Programs)
Julie Wright, Pharm.D., FCCP, BCPS (Graduate Studies)
Rose Zwerenz, M.D. (TrumanMedicalCenterLakewood Programs)

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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.umkc.edu/medicine/mediacenter.

Location: UMKCSchool 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

More information on School of Medicine computer-related resources, as well as other informative technology information, is available at: www.umkc.edu/medicine/techguide

Student Services

The School of Medicine's Office of Student Affairs coordinates a variety of support services that are available to all medical students. These include counseling, financial aid, student organizations and activities.

The Office of Student Affairs also provides career information to students and assistance in applying for postgraduate residency training programs.

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.

Students may 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 Life, located in the University Center, 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.

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. 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.

Workshops

Periodically, special workshops are arranged in response to student needs and interests.

Counseling and 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 personal 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.

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./html>

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>.

Medical Student Organizations, Publications and Awards

Alpha Omega Alpha

The Delta Chapter of the Alpha Omega Alpha Honor Society is an organization open to the 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 AvenueTemple.

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)

* 3 to 12 credit hours will come from general degree requirements and/or core major requirements.
All students are required to take three clinical electives, one of which must be direct patient care.

Master of Science in Anesthesia Program

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

Admission Requirements

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 (last 5 years only)

- Letters of recommendation (minimum 3)

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.

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 a 3.0 GPA or higher for all college credit attempted or earned. 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 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 college credit hours and have earned, or will soon earn, a Bachelor's degree are eligible to apply to the M.D.-Only 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.-only 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 and 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.-only students before matriculation into the program.

Application Fee and Timetable for Applying

Applicants are strongly advised to apply online. A \$35 application fee is required of all resident applicants. A \$50 application fee is required of all regional and nonresident applicants. If the applicant submits a paper application,

an additional processing fee may be assessed.

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.

(Applicants are urged to apply as soon after Aug. 1 as possible.)

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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 Master of Science in Anesthesia Program

Note to Editor: The MS in Anesthesia Student Learning Outcomes and Program Requirements should be added here.

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 anesthesiologists 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 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.
9. Docent certification of clinical competence.
10. 48 months of enrollment in the School of Medicine, years 3 to 6.
11. Current certification in Advanced Cardiac Life Support.
12. Evidence of adherence to the Fee Policies.
13. Evidence of Financial Aid Exit Interview.
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.
8. Current certification in Advanced Cardiac Life Support.
9. Evidence of adherence to the Fee Policies.
10. Evidence of Financial Aid Exit Interview.
11. Year 6 Year-End Docent Interview.

Graduation Requirements for CURRENT students in the OS/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. 2 clinical electives which must be selected from 9 separate categories.
6. Docent certification of clinical competence.
7. 42 months of enrollment in the School of Medicine.
8. 18 months of enrollment in Oral Surgery through the School of Dentistry.
9. Current certification in Advanced Cardiac Life Support.
10. Passing scores on USMLE Steps 1 and 2 (Clinical Knowledge and Clinical Skills).
11. Evidence of adherence to the Fee Policies.
12. Evidence of Financial Aid Exit Interview.
13. 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.
7. Current certification in Advanced Cardiac Life Support.
8. Evidence of adherence to the Fee Policies.
9. Evidence of Financial Aid Exit Interview.
10. Year 6 Year-End Docent Interview.

Graduation Requirements for students in the OS/MD Program (effective Summer Semester 2009):

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. 3 clinical electives which must be selected from 9 separate categories.
5. Docent certification of clinical competence.
6. 22 months earned UMKC medical school credit plus 12 months of enrollment in Oral Surgery through the School of Dentistry.
7. Current certification in Advanced Cardiac Life Support.
8. Evidence of adherence to the Fee Policies.
9. Evidence of Financial Aid Exit Interview.
10. Year 6 Year-End Docent Interview.

Requirements for Graduation in the Master of Science Program in Bioinformatics

Note to Editor: the Student Learning Outcomes for the Master of Science in Bioinformatics should be added here.

The Program Description for the Bioinformatics program can be moved to the General Information catalog if desired.

Master of Science in Bioinformatics

The Master of Science in Bioinformatics Program supports the education of students interested in a career in bioinformatics and/or clinical research. Graduates become effective team members who contribute to multidisciplinary approaches to education, research, and development in the fields of bioinformatics and/or clinical research. The Program is administratively housed in the UMKC School of Medicine and is a cooperative Graduate Program coordinated amongst the School of Medicine, the School of Biological Sciences and the School of Computing and Engineering. A core curriculum is offered to all students, with specialty tracks in Genomics led by the School of Biological Sciences, in Computational Bioinformatics led by the School of Computing and Engineering and in Clinical Research, led by the School of Medicine.

Computational Track — The goal of this emphasis area is to train students to develop and use the next generation of bioinformatics tools and software.

Genomics Track — Students will become highly trained end-users of existing software for biological analysis and be able to analyze a diverse set of biological data.

Clinical Research Track — Students will be well trained in the creation and understanding of data generated by patient care and clinical studies and on the **research** methodology needed for clinical research and improved bedside care.

Additional information and admission requirements may be obtained at the bioinformatics website at <http://www.med.umkc.edu/msb/>

Music and Dance, Conservatory of

Conservatory of Music and Dance

[Performing Arts Center](#)

4949 Cherry Street
(816) 235-2900

[mail: conservatory@umkc.edu](mailto:conservatory@umkc.edu)

<http://www.umkc.edu/conservatory/>

Mailing Address

University of Missouri-Kansas City
Conservatory of Music and Dance
5100 Rockhill Road
Kansas City, MO 64110-2499

Dean:

Peter T. Witte

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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 of Music'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.

Studies in American Music

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 Workshop
- Jazz Orchestra
- Jazz Band
- Wind Symphony
- Wind Ensemble
- Bella Voce
- Conservatory Concert Choir
- Conservatory Singers
- Canticum Novum
- Musica Nova
- Opera/Musical Theatre Ensemble
- Ensemble for Composers

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 and with student chapters of MENC: The National Association for Music Education, the American Music Therapy Association, the International Association of Jazz Educators, the American Guild of Organists and the American Choral Directors Association.

Continuing Education

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. Conservatory scholarship applications are included with the applicant's packet.

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 art, bachelor of art, 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.

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 taped 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

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 Music 402 or Dance 442.)
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.
3. 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).
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. All Conservatory students, except those in bachelor of music performance with piano emphasis, are required to successfully complete CONSVTY 310, Keyboard Skills IV, with a grade of B- or better before graduation.
10. 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.
11. 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.
12. All bachelor of music education students must complete Applied Music Studies 401 (secondary). A studio recital is required.
13. All bachelor of music education-therapy students must complete Applied Music Studies 301 (secondary).
14. All bachelor of arts music students must complete Applied Music Studies 301 (secondary).

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.

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 Band 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 Conservatory 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 Requirements

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
 - 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:
 1. Possess a bachelor's degree in music.
 2. Possess a minimum grade-point average of 3.0 in undergraduate music history courses.
 3. 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 baccalaureate degree or 2) a senior project from the baccalaureate degree.)
 4. Perform an applied audition before enrolling in the first term.
- Music Theory
 - Master's degree:
 1. Possess a bachelor's degree in music theory or the equivalent.
 2. Possess a minimum grade-point average of 3.0 in undergraduate music theory courses.
 3. Perform a keyboard proficiency examination.
 4. Submit examples of writing.
 5. Translate a selection into English from either French or German using a dictionary.
- Music Therapy
 - Master's degree:
 1. (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.
 2. Have an acceptable interview with one or more members of the music therapy faculty.
 3. 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.
 - 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.

Graduate Assistantships, Fellowships and Scholarships

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.

For information concerning assistantships, fellowships and other forms of student financial aid and scholarships, contact the

Conservatory Admissions Office
(816) 235-**2932**
cadmissions@umkc.edu

and the Financial Aid and Scholarships Office
University of Missouri-Kansas City
5115 Oak St.
Kansas City, MO 64110-2499
<http://www.sfa.umkc.edu>

General Graduate Degree Requirements

Information concerning specific degree requirements is available upon request from Conservatory Admissions,

UMKC Conservatory of Music and Dance
4949 Cherry St.
Kansas City, MO 64110-2499
(816) 235-**2900**
cadmissions@umkc.edu

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, except in the master of arts degree.

Ensemble Requirements

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.

Foreign Language Proficiency Requirements

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 Academic Studies.

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 Academic Affairs. 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.

For doctoral composition students *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 appropriate foreign language skills. 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. Students who have demonstrated evidence of foreign language skills by passing one year of foreign language study at the college level, or by passing the final exam for a level-two college foreign language course, may elect the following options for fulfilling their foreign language requirement: A grade of B- or better in CONS 534B Advanced Computer Music Language Study or 598B Research Problems in Computer Languages and Music. If one of these courses is used to fulfill the foreign language requirement, it cannot also be used as part of the area of concentration. Doctoral students in composition *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.

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.

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.

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

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 (Conservatory [5697](#) and [5698](#)) instead of the dissertation must complete at least one project after comprehensive exams are passed.

The Comprehensive Examination Committee

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.

Master of Music in Music Composition Required Courses

Conservatory 5500-5600 Music History	3
Conservatory 5500-5600 Music Theory	3
CONSVTY 5533 Advanced Composition (three courses)	9
CONSVTY 5593 Introduction to Research and Bibliography in Music	3
CONSVTY 5599 Thesis(a) area of concentration(b)	4 8
Electives	2
Total hours (minimum)	32

(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.

Note: Each master's student majoring in music composition must audition on an instrument or voice as part of the initial enrollment process. Based on the audition results, the applied music requirement will be as follows:

1. If the student qualifies for applied music at the 301 secondary level, no applied music is required.
2. If the student does not qualify for applied music at the 301 secondary level, the student must enroll in applied music in the same performing medium for two terms or until 301 secondary is completed.

Master of Music in Conducting Required Courses

Conservatory 5582 Advanced Choral Conducting
(any two from 5582 ABC)

-and-

Conservatory 5587 Seminar in Choral Literature
(select two from 5587 ABCDE or
CONSVTY 459, Choral Literature) 8-9

-or-

Conservatory 5583 Advanced Instrumental
Conducting (any two from 5583 ABCD)

-and-

Conservatory 5586 Seminar in Orchestral or
Wind/Band Literature (5586 A or B) 8

And the following:

Conservatory 400-5500A Applied Music(a)	2-6
Conservatory 5500-5600 Music History	3
Conservatory 5500-5600 Music Theory	3
CONSVTY 5593 Introduction to Research and Bibliography in Music	3
CONSVTY 5597A Master's Conducting Performance(b)	4
CONSVTY 5598 Research Problems	2
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

CONSVTY 5500, 5600 Music History or Theory	3
CONSVTY 5574 History and Philosophy of Music Education	3
CONSVTY 5589 Academic Portfolio	3
-or-	
CONSVTY 5599 Thesis	3
CONSVTY 5594A Introduction to Descriptive and Experimental Research in Music	3
Applied Musicianship(a)	2
Methods/Materials Advanced Courses (e.g., Conservatory 5540x, 5582x, 5583x, 5586x, 5587x, Summer Workshops)	6
Electives	10
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 491/5591 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

Conservatory 5500A Applied Music (or three terms in the same performing medium at any level)(a)	2
Conservatory 5500-5600 Music History (four courses, two periods and two of choice)	12
Conservatory 5500-5600 Music Theory	3
CONSVTY 5591K Pedagogy of Music History	3
CONSVTY 5593 Introduction to Research and Bibliography in Music	3
CONSVTY 5693 Advanced Research and Bibliography in Music	3
CONSVTY 5598 Research Problems	2
CONSVTY 5599 Thesis	6
Electives	1-3
Total hours (minimum)35	

(a) Elective credit may be substituted if Conservatory 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

Conservatory 5500-5600 Music History	3
Conservatory 5500-5600 Music Theory	3
Conservatory 5501 Applied Study(a)	4
CONSVTY 5593 Introduction to Research and Bibliography in Music	3
CONSVTY 5591E Advanced Pedagogy I - Piano	2
CONSVTY 5597 Master's Recital (two required)	8
Collaborative Experiences	2
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 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.

Master of Music in Performance:

Orchestral Instruments and Guitar Emphasis Areas

Conservatory 5500-5600 Music History	3
Conservatory 5500-5600 Music Theory	3
Conservatory 5501 Applied Study(a)	4
CONSVTY 5593 Introduction to Research and Bibliography in Music	3
CONSVTY 5597 Master's Recital (two required)	8
CONSVTY 305G Principles of Chamber Music	4
Electives (Non-applied music course)	3
Electives	8

Total hours (minimum)36

(a) A minimum of one semester of applied music (5501) is required before the first recital. CONSVTY 5501 or 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

Conservatory 5500-5600 Music History	3
Conservatory 5500-5600 Music Theory	3
Conservatory 5501 Applied Study(a)	4
CONSVTY 5547 History of Opera I	3
CONSVTY 5548 History of Opera II	3
Conservatory 5566 (A, B, C, D) Vocal Literature (one required)	2
CONSVTY 5593 Introduction to Research and Bibliography in Music	3
CONSVTY 5597 Master's Recital (two required)	8
Electives	6

Total hours (minimum)35

(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.

Master of Music in Performance: Woodwind Emphasis

Note: The five instruments covered in this degree shall be flute, oboe, clarinet, saxophone and bassoon.

Conservatory 5501 Applied Music (Instrument #1)(a)	4
Conservatory 5500A Applied (Instrument #2)(b)	2
Conservatory 5500A Applied (Instrument #3)(b)	2
Conservatory 5500-5600 Music Theory	3
Conservatory 5500-5600 Music History	3
Conservatory 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 5599 Thesis	4
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
CONSVTY 5620 History of Music Theory I	3

-or-

CONSVTY 5621 History of Music Theory II	3
Music History (Graduate Level)	3
Electives	6

Total hours (minimum)34

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
Conservatory 5500-5600 Music Theory(b)	3
Conservatory 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
Conservatory 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).

(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

CONSVTY 5544 Advanced Clinical Experience	2
CONSVTY 5545 Seminar in Music Therapy	2
CONSVTY 5594A Introduction to Descriptive and Experimental Research in Music	3
CONSVTY 5599 Thesis	3
Select one course from the following four:	3
Conservatory 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

Lessons and Recitals (Solo Experiences)(a)	16
Chamber and Ensemble Work (Collaborative Experiences) and/or Prescribed Electives	8
Music Literature/Pedagogy(b)	3-5
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. 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

Conservatory 5500-5600 Music Theory (three courses)	9
Conservatory 5500-5600 Music History (three courses)(a)	9
Conservatory 5531 Advanced Orchestration	3
Conservatory 5533 Advanced Composition (three classes)	9
Conservatory 5533 Advanced Composition (one additional) -or- 5534 Advanced Electronic Music Composition	3
Conservatory 5593 Introduction to Research and Bibliography in Music	3
Conservatory 5699 Dissertation Research(b)	6
Area of Concentration(c)	11

(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) 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.

Language Requirement: A proficiency in one foreign language is required. See this section of the catalog for options.

Note: Each doctoral student majoring in music composition must audition on an instrument or voice as part of the initial enrollment process. Based on the audition results, the applied music requirement will be as follows:

1. If the student qualifies for applied music at the 301 level, no applied music is required.
2. If the student does not qualify for applied music at the 301 level, the student must enroll in applied music in the same performing medium for two terms or until 301 secondary is completed.

Doctor of Musical Arts in Conducting Required Courses

Conservatory 5582 Advanced Choral Conducting (any three from 5582 ABC)	6
Conservatory 5583D Advanced Instrumental Conducting for Choral Majors	2
Conservatory 5587 Seminar in Choral Literature (any four from 5587 ABCDE or Conservatory 459)	8(9)

-or-

Conservatory 5586 Seminar in Orchestral or Wind/Band Literature(5586 A or B)	8
Conservatory 5583 Advanced Instrumental Conducting (three from 5583 ABCD)	6

And the following:

Conservatory 5500A Applied Music(a)	2
Conservatory 5500-5600 Music History(b) (three required)	9
Conservatory 5500-5600 Music Theory (three required)	9
Conservatory 5593 Introduction to Research and Bibliography in Music	3
Conservatory 5697B Doctoral Conducting Performance(c) (Two public performances with supporting documents)	8
Conservatory 5697/5698/5699 (d) Doctoral Research	4

(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 (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.

(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

CONSVTY 5500-5600 Music History (three required)(a)	9
CONSVTY 5500-5600 Music Theory (three required)	9
CONSVTY 5591 Advanced Pedagogy	2(3)
CONSVTY 5593 Introduction to Research and Bibliography in Music	3
CONSVTY 5601 Applied Study(b)	4
CONSVTY 5697 Doctoral Recital (three required)(c)	12
CONSVTY 5697A Doctoral Lecture Recital	4
CONSVTY 5697/5698/5699(d) Doctoral Research	4

(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 Conservatory 5601, Applied Music, is required before the first solo recital. Voice performance majors, with the approval of the Vocal Studies Division, may enroll in 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 (3.0 hours), and one from CONSVTY 5566A, 5566B, 5566C CONSVTY 5566D, Vocal Literature (2.0 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.

Artist's Certificate Required Courses

Lessons and Recitals (Solo Experiences)(a)	16
Electives(b)	13
Total hours (minimum)	29

(a) Instrumental Students - Lessons = four hours, recitals=12 hours; Keyboard Students - Recitals =16 hours (two solo, one concerto, one chamber); 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 - Collaborative experiences, 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 General Undergraduate Academic Regulations and Information section of this catalog.
 2. When American history or social science is required, courses may be selected from the following: HISTORY 101, 102 or POL-SCI 210, American Government.
1. Withdrawal policy for all Conservatory students:
 2. Students can withdraw without academic assessment during the first eight weeks of a semester.
 3. Students can withdraw with academic assessment from week nine to one month before the beginning of the examination period.
 4. Students who withdraw from classes any time during the final month of scheduled classes will receive an automatic assessment of WF.
1. All Conservatory undergraduate students must take the UMKC Written English Proficiency Test after completion of 45 hours of coursework or before beginning their junior years. Students who fail the test must take ENGLISH 299 and pass the proficiency test before their diplomas are awarded. Exceptions would be Conservatory students for whom English is a second language. These students would be required to take the test after all English language requirements of their degree program are met.
 2. Students enrolling in Music Theory I-IV and Ear Training and Solfege I-IV must receive a C- grade or better to progress to the next appropriate class level. Students enrolling in Keyboard Skills I-IV must receive a B- grade or better to progress to the next appropriate class level.

Undergrad Programs

Minimum Core Requirements for All B.M. Degrees

Required Courses

HISTORY 101/102 or POL-SCI 210
 ENGLISH 110
 ENGLISH 225
 CONSVTY 154
 CONSVTY 154A
 CONSVTY 121, 122, 221, 222A
 CONSVTY 129A, 129B, 229A, 229B
 CONSVTY 150
 CONSVTY 323**
 CONSVTY 351, 352
 CONSVTY 380/381

* Required for Jazz and Studio Music, Organ and Theory Emphasis Areas.

** 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

Music Composition Required Courses

(See minimum foreign language and core requirements)

Required Courses: Hours

CONSVTY 101-301(a) Ensemble(b)	
Comm-ST 110	
CONSVTY 133-134	
ENGLISH 300-level	
CONSVTY 233-234	
CONSVTY 235	
CONSVTY 329	
CONSVTY 331A; 431	
CONSVTY 333(c)	
CONSVTY 427	
CONSVTY 428	
CONSVTY 433	
Electives (Theory course 300 or above)	2(3)
Area of Concentration(d)	16-18
Electives	14
CONSVTY 310 Keyboard Skills IV	2

Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.

(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) 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 must petition the composition faculty for major status. The petition will include:

A portfolio of 2-3 representative scores and/or tape recordings of original work.

A complete list of original compositions by the petitioner.

Transcripts and other academic credentials.

A personal interview (at the discretion of the composition faculty).

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:

A minimum of a B- average in Music Theory classes (121, 129A, 122, 129B, 221, 229A, 222A, 229B) must be maintained. No grade below a B- may be received in any Composition class (133, 134, 233, 234, 333, 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).

(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:

1. Conceptual understanding of musical components and processes.
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.

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 Emphasis Area

Prerequisites

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.

Required Courses:

Hours:

(See minimum foreign language
and core requirements)

CONSVTY 101-402
COMM-ST 110
ENGLISH 300-level
Ensemble (Eight Semesters)
CONSVTY 305J
CONSVTY 331
CONSVTY 427
CONSVTY 437
CONSVTY 491D-492D
CONSVTY 494
CONSVTY 223-310
Electives (Music)
Electives

* Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.

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.

Prerequisites

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.

Required Courses:Hours

(See minimum core requirements)

CONSVTY 101-301
CONSVTY 205
CONSVTY 301J-402J
CONSVTY 104-404
COMM-ST 110
CONSVTY 123-310
CONSVTY 302 or 306A or 306C
ENGLISH 300-level
CONSVTY 235 OR 236
CONSVTY 303B or 303G
CONSVTY 303E
CONSVTY 305
CONSVTY 311
CONSVTY 318
CONSVTY 329
CONSVTY 349
CONSVTY 353A-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 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 202 and successfully performing before the jazz faculty.

Organ Emphasis Area

Prerequisites

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.

Required Courses

(See minimum foreign language and core requirements)

Foreign Language French/German 110, 120
CONSVTY 101-402
Ensemble (Eight Semesters)
ENGLISH 300-level
CONSVTY 382
CONSVTY 427
CONSVTY 437

CONSVTY 460-469
CONSVTY 491C
Electives (Harpsichord)
Applied (Piano [2])(b)
Electives (Music)(c)
Electives

- (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.
- (c) Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.

Piano Emphasis Area

Requirements

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.

Required Courses

(See minimum foreign language and core requirements)

Foreign Language French/German 110, 120
CONSVTY 101-402
CONSVTY 114, 115, 214, 215
Ensemble (Eight Semesters)*
ENGLISH 300-level
CONSVTY 325-326
CONSVTY 325A-326A
CONSVTY 376, 377, 476, 477
CONSVTY 427 18th
CONSVTY 437
CONSVTY 361-362-461-462
Electives

* Piano performance majors have the option of using a maximum of four semesters of CONSVTY 305G, Collaborative Keyboard, in lieu of their major ensemble.

Piano Pedagogy Emphasis Area

Prerequisites

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.

Required Courses

(See minimum foreign language and core requirements)

Foreign Language French/German 110, 120
CONSVTY 101-402

CONSVTY 114, 115, 214, 215
Ensemble (Eight Semesters)(a)
PSYCH 210
ENGLISH 300-level
CONSVTY 325-326
CONSVTY 325A-326A
CONSVTY 376,377
CONSVTY 427 18th
CONSVTY 437
CONSVTY 361, 362, 461, 462
CONSVTY 495-496
CONSVTY 495A-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

Prerequisites

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.

Required Courses

(See minimum foreign language and core requirements)

CONSVTY 101-402
COMM-ST 110
ENGLISH 300-level
CONSVTY 302 (eight semesters)
CONSVTY 305A (eight semesters)
CONSVTY 331
CONSVTY 427
CONSVTY 470D
CONSVTY 437
CONSVTY 223 -310
Electives
Electives (Music)

*Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.

Voice Emphasis Area

Prerequisites

Students must be able to sing standard songs in English on pitch and with satisfactory phrasing and musical intelligence. Students must demonstrate ability to read a simple song at sight and should have completed the equivalent of PIANO 123.

Required Courses

(See minimum foreign language and core requirements)

Foreign Language French/German/Italian 110, 120,
211, 221(a)

CONSVTY 101-402

CONSVTY 185A, 185B, 185C, 185D

ENGLISH 300-level

Major Choral Ensemble (Eight Semesters)(b)

THEATER 300

CONSVTY 417B, 417C

CONSVTY 437

CONSVTY 457-458

CONSVTY 491B-492B

CONSVTY 123, 223, 310

Electives

(a) 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.

(b) 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.

(c) Everyone must take a fall section of 417B. Six other credits may be chosen from 417C, 417D, 417E and 417F.

(d) Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.

Wind and Percussion Emphasis Area

Prerequisites

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.

Required Courses

(See minimum foreign language and core requirements)

CONSVTY 101-402

COMM-ST 110

ENGLISH 300-level

CONSVTY 302/306A/306C (8 semesters)

CONSVTY 305 (8 semesters)

CONSVTY 331

CONSVTY 383

CONSVTY 427

CONSVTY 437

CONSVTY 223, 310

Electives(Music)

Electives

(a) Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.

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 121-129A, 122-129B, 221-229A, 222A-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 minimum foreign language and core requirements (a))

CONSVTY 101-402
Ensemble (Eight Semesters)
ENGLISH 300-level
COMM-ST 110
CONSVTY 133-134
CONSVTY 235
CONSVTY 310
CONSVTY 329
CONSVTY 331A
CONSVTY 373 (two semesters)
CONSVTY 382/383
CONSVTY 424
CONSVTY 427
CONSVTY 428
CONSVTY 491K
CONSVTY 497
CONSVTY 498
Electives (Non-music)
Electives
Electives (Music)

(a) Petitions to substitute another language will be considered in special cases.

(b) Students majoring in music theory must complete 402 in an applied area.

(c) Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required. Should the placement exam require students to begin at a level before IV, two hours of electives may be used for this purpose.

Bachelor of Music

The bachelor of music program is a professional baccalaureate degree program offered in performance, music composition or music theory.

The courses listed below represent a core curriculum that is required of all students seeking bachelor of music degrees. Additional emphasis area requirements are listed under the specific degree majors.

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.

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-140B
DANCE 141B-442B
DANCE 141M-442M
DANCE 107, 108
DANCE 213C-213D
DANCE 217A, 217B
DANCE 218A, 218B, 319A, 319B
DANCE 250
DANCE 260, 261

DANCE 301
DANCE 302
DANCE 303
DANCE 305, 306
DANCE 309B
DANCE 310A, 310B
DANCE 313A, 313B
DANCE 405A, 405B
DANCE 413A, 413B
DANCE 414A, 414B
DANCE 415A, 415B
DANCE 416A, 416B,
DANCE 493, 494

Total Hours101(103)

Required General Studies Courses

HISTORY 101
ART 110
COMM-ST 110
ENGLISH 110
ENGLISH 225
CONSVTY 120 or 120N
CONSVTY 353A or CONSVTY 125
THEATER 101 or 300
CONSVTY 375B
DANCE 106 -or- Computer Science 100
Applied Music
Total Hours30

* 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:

1. Conceptual understanding of musical components and processes.
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, 122, 221, 222A
 CONSVTY 129A, 129B, 229A, 229B
 CONSVTY 154 (Seven Semesters)
 CONSVTY 154A
 CONSVTY 323
 CONSVTY 101-301
 CONSVTY 490S
 Piano (If not the applied area)*
 Major Ensemble (Eight Semesters)**
 Electives (Music)

*Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required. If keyboard is the applied area, two hours of music electives are required to be chosen from music history, music composition or music theory.

**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

Humanities	6
Social Science	6
American History 101 or 102	3
Biological Science (with lab)	3(4)
ENGLISH 110, 225, and one 300-level Writing Intensive Course	9
COMM-ST 110 Fundamentals of Effective Speaking and Listening	3
Advanced Math* (Calculus) or Statistics or MATH 206	3
CONSVTY 150 Intro to Music Literature	3
CONSVTY 351, 352 History of Music in Western Civilization I, II	6
CONSVTY 424 Acoustics	3
CONSVTY 437 Computer Literacy	3
Area of Concentration (Non-music)	15-18
Electives (Non-music)	9-12
Total Hours	75

*Must be higher than College Algebra & Trigonometry

Music Therapy Emphasis Area Prerequisites

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, 180 and 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 101-301
 CONSVTY 101C
 CONSVTY 121, 122, 221, 222A

CONSVTY 128
CONSVTY 129A, 129B, 229A, 229B
CONSVTY 150
CONSVTY 154 (seven semesters)
CONSVTY 154A
CONSVTY 223-310
CONSVTY 302/306A/306C/307C/308A/301C (8 semesters)(c)
CONSVTY 315
CONSVTY 316
CONSVTY 351-352
CONSVTY 360
CONSVTY 373G -or- Guitar 100B
CONSVTY 373N
CONSVTY 380-or-381
CONSVTY 425A-or-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 424
CONSVTY 437
HISTORY 101/102
PSYCH 316
Electives (General)

Bachelor of Music Education

Completion of the bachelor of music education degree at UMKC fulfills the requirements to teach music in grades K-12 (elementary general music and secondary vocal or instrumental music) in either Missouri or Kansas. As a member of NASM and NCATE, the Music Education/Music Therapy Division seeks to fully prepare future music educators and believes that the best preparation for teaching is the completion of all courses in the undergraduate music education curriculum. Therefore, all students seeking certification through the Conservatory of Music must satisfy the course requirements of the bachelor of music education degree. Before being admitted into the music teacher education 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.

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:

1. Conceptual understanding of musical components and processes.
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

Prerequisites

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.

To be retained in the program the student must achieve the following:

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.

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).

Bachelor of Music Education - Instrumental Emphasis Area

Required Music Courses

CONSVTY 101-401
CONSVTY 101C
CONSVTY 110, 123, 223, 310
CONSVTY 121,122,221,222A
CONSVTY 128
CONSVTY 129A, 129B, 229A,229B
CONSVTY 150
CONSVTY 305 (four semesters)
CONSVTY 154A
CONSVTY 160/161
CONSVTY 270 (Wind/Percussion students only)
CONSVTY 302/306A/306C (six or seven
semesters)(c)
CONSVTY 323
CONSVTY 351, 352
CONSVTY 358/359 (1 semester)/(two semesters)
CONSVTY 360
CONSVTY 373 (eight semesters)(d)
CONSVTY 378/379
CONSVTY 381
CONSVTY 383
CONSVTY 385
CONSVTY 386
CONSVTY 405
CONSVTY 425B (String students may substitute
CONSVTY 331, Orchestration I)
CONSVTY 437
CONSVTY 411A/411B/411C
CONSVTY 412A/412B
Student Teaching Music(e)

Required General Studies Courses

ENGLISH 110 and ENGLISH 225
COMM-ST 110

Biology wih lab
Physical Science or Accoustics CONSVTY 424
MATH 110 OR 116
American History 101 OR 102
POL-SCI 210
PSYCH 210
TE 427
TE 403
TE 404
TE 420
TE 419/437

- (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) Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.
- (c) String students must complete seven semesters of major ensemble. Wind and percussion students must complete six semesters of major ensemble.
- (d) Wind and Percussion students: one hour in each of high brass, low brass, high strings, low strings, percussion, woodwind I, woodwind II and woodwind III, attaining a minimum grade of C in individual instrument blocks within classes (the final grade will be an average of the grade from the two blocks). CONSVTY 373I, Instrumental Techniques and Woodwind III, will include a half-semester independent-study review of wind instrument pedagogy and should be taken at the end of the techniques sequence. String students: one hour each in high brass, low brass, woodwind I, woodwind II, percussion and high or low strings depending upon specialty area and faculty recommendation (i.e.: violin students take low strings, cello students take high strings) attaining a minimum grade of C in individual instrument blocks within classes (the final grade will be an average of the grades from the two blocks) 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).
- (e) Two seven-credit-hour experiences divided between the CONSVTY and School of Education provide certification in Music K-12.

Bachelor of Music Education - Music Therapy Emphasis

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, 180, 210, 260, 406, 408, 409).

Complete CONSVTY 310, Keyboard Skills IV, with a grade of B- or better.

Area Required Music Courses

CONSVTY 101-301
CONSVTY 101C
CONSVTY 121,122,221,222A
CONSVTY 128
CONSVTY 129A,129B,229A,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 223,310
CONSVTY 260
CONSVTY 302/306A/306C/307C/308B/301C (five semesters)(f)
CONSVTY 315
CONSVTY 316 (for choral only)
CONSVTY 323
CONSVTY 351, 352
CONSVTY 357 (for choral only) (two semesters)
CONSVTY 370 (for choral only)
CONSVTY 373 (four-six semesters)
CONSVTY 380/381
CONSVTY 382/383
CONSVTY 385
CONSVTY 386/387
CONSVTY 405
CONSVTY 406
CONSVTY 408
CONSVTY 409
CONSVTY 410
CONSVTY 424
CONSVTY 425A/B
CONSVTY 435
CONSVTY 437
CONSVTY 411A/411B
CONSVTY 412A/412B

Area Required General Studies Courses

ENGLISH 110 and ENGLISH 225
LS-PHYS 117
LS-ANATO 118L
COMM-ST 110
American History 101 OR 102
POL-SCI 210
MATH 110 OR 116
Sociology/Anthropology
PSYCH 210
PSYCH 433
TE 427
TE 403
TE 404
TE 405/422
TE 419/437

(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 101-401
 CONSVTY 110, 123, 223, 310
 CONSVTY 121, 122, 221, 222A
 CONSVTY 128
 CONSVTY 129A, 129B, 229A, 229B
 CONSVTY 150
 CONSVTY 154 (four semesters)
 CONSVTY 154A
 CONSVTY 171, 172
 CONSVTY 307C/3018A/301C (eight semesters)
 CONSVTY 331
 CONSVTY 351, 352
 CONSVTY 357 (two semesters)
 CONSVTY 360
 CONSVTY 370
 CONSVTY 373N
 CONSVTY 373P
 CONSVTY 373G
 CONSVTY 380
 CONSVTY 382
 CONSVTY 385
 CONSVTY 387
 CONSVTY 405
 CONSVTY 425A
 CONSVTY 437
 CONSVTY 411A/411B/411C
 CONSVTY 412A/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 116
 American History 101 OR 102
 POL-SCI 210
 PSYCH 210
 TE 427
 TE 403
 TE 404
 TE 420
 TE 419/437

- (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) Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.

(c) 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.

(d) Two seven-credit-hour experiences divided between the CONSVTY and School of Education provide certification in Music K-12.

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

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School of Nursing

2464 Charlotte Street

Kansas City, MO 64108

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Associate Dean for Academic Programs:

[Thad Wilson](#)

Associate Dean for Research and Scholarship:

[Tina Hines](#)

Assistant Dean for Student Affairs:

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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 master's degree program. 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.

Accreditation

The Bachelor of Science in Nursing (BSN) and Master of Science in Nursing (MSN) programs are accredited by the Commission on Collegiate Nursing Education (CCNE).

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

- Pre-licensure Program (128 credit hours)

- RN-BSN Program (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 PhD (73 credit hours)

Nurse Educator Post Master's Certificate Program (12 credit hours)

Doctorate in Nursing Practice (post master's) (25 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 Academic 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
- Goppert Scholarship
- Helen Blond Scholarship
- Integral Scholarship
- John S. Waggoner Memorial Nursing Scholarship
- Laura Larkin Dexter 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 the "Policies" link on the School's home page (<http://www.umkc.edu/nursing/>). Students must also be familiar with the Nursing Honor Code found at <http://nursing.umkc.edu/documents/honorcode.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 found at <http://nursing.umkc.edu/documents/honorcode.pdf>. 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.

Master of Science in Nursing (M.S.N.)

Student Learning Outcomes

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.

M.S.N. Degree Requirements

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 programs:

Adult, Family and Women's Health Nurse Practitioner Programs:

NURSE 5548 Advanced Pathophysiology (3)
NURSE 5549 Pharmacology for Advanced Nursing Practice (3)

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 Program:

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 Program:

Advanced Growth & Development (1)
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 Program:

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 5572 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)

Core Coursework:

Summer I

NURSE 5602 Healthcare Systems & Leadership (3) and four days on-site

Fall I
NURSE 5606 Policy & Advocacy (3)
NURSE 5608 Theory I (3)

Spring I
NURSE 5611 Healthcare Economics & Quality (3)
NURSE 5613 Application of Evidence-based Practice (3)

Summer II
NURSE 5620 Advanced Practice V (5) - DNP Clinical and a 2-4 day site visit

Fall 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

Student Learning Outcomes

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.

Pre-licensure Option

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.

Program Requirements

A sample course of study for a full-time 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)

Socio-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)

R.N. to B.S.N. Program

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) (2)

- Team-building concepts
- Applied leadership principles
- Applied research and writing skills
- Technology application for project management
- Business communication
- Conflict management

NURSE 488 Special Topics (1)

Pharmacy, School of

Pharmacy Home Page

Health Sciences Building
Hospital Hill Campus
2464 Charlotte Street
(816) 235-**1609**
Fax: (816) 235-**5190**
(816) 235-**1613** (Student Services)
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Mailing Address

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School of Pharmacy
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Dean:

Robert W. Piepho

Associate Deans:

Wayne M. Brown

Kathleen A. Snella

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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). The most recent accreditation review was in 2003, when full accreditation was continued. The next on-site accreditation review will be during the 2009-10 academic year. Anyone interested can contact ACPE at <http://www.acpe-accredit.org> for more information. The bachelor of science and master of science degrees are accredited by The Higher Learning Commission North Central Association of Colleges and Schools.

Degrees Offered

The School of Pharmacy offers programs leading to the advanced professional degree of doctor of pharmacy and the undergraduate-level bachelor of science in pharmaceutical sciences. Graduate-level degrees include the master of science in pharmaceutical sciences. Emphasis areas available in the master's degree program are:

- Pharmaceutics (including pharmaceutical technology and pharmacokinetics)
- Pharmaceutical chemistry (including medicinal chemistry),
- Pharmacology
- Toxicology

The School of Pharmacy participates in the Interdisciplinary Ph.D. program with emphasis areas in pharmaceutical sciences and pharmacology and toxicology.

The School of Pharmacy offers programs leading to the advanced professional degree of doctor of pharmacy and the undergraduate-level bachelor of science in pharmaceutical sciences. The master of science in pharmaceutical sciences is the graduate-level degree. Emphasis areas available in the master's degree program are pharmaceutics (including pharmaceutical technology and pharmacokinetics), pharmaceutical chemistry (including medicinal chemistry), pharmacology and toxicology. The School of Pharmacy participates in the Interdisciplinary Ph.D. program through the school of graduate studies with emphasis areas in pharmaceutical science and pharmacology.

The UMKC School of Pharmacy offers a Pharm.D. satellite program on the University of Missouri-Columbia (UMC) campus in conjunction with the School of Health Professions. The traditional (UMKC campus) and satellite Pharm.D. programs encompass five years of professional study after completion of the required pre-pharmacy coursework. Although students enrolled in the satellite program will be on the UMC campus, these students will be considered UMKC students. Students accepted into the satellite Pharm.D. program will complete the basic science and general education courses in traditional classroom settings on the Columbia campus whereas students accepted to the traditional program will complete coursework on the UMKC campus. Pharmacy specific courses offered on the UMKC campus will be transmitted via distance education technology from UMKC to students enrolled in the satellite program.

Ph.D. programs at UMKC are interdisciplinary. Students desiring to study at the doctoral level in pharmaceutical sciences or pharmacology and toxicology 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 this catalog.

Students pursuing Interdisciplinary Ph.D. study, who have selected pharmaceutical sciences or pharmacology and toxicology 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.

Career Applications

The M.S. degree offers advanced education in pharmaceutical sciences to students with undergraduate degrees in pharmacy or baccalaureate degrees in other fields such as chemistry, chemical engineering or biology. An M.S. degree is often a requisite for management positions in industrial pharmaceuticals production, quality assurance, regulatory affairs and other areas. It is sometimes desired as a milestone for full-time graduate students who are pursuing Interdisciplinary Ph.D. degrees, but the M.S. is not a prerequisite for the Ph.D. degree. Full-time students applying for admission to the graduate programs in the School of Pharmacy are urged to apply to the Interdisciplinary Ph.D. program.

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 appointment to university faculties or to senior-level appointments in research and development in pharmaceutical and related industries, research institutes and in government.

Bachelor of Science in Pharmaceutical Sciences: Program Description

The four-year bachelor of science in pharmaceutical sciences degree program is an undergraduate degree that does not prepare graduates for pharmacist licensure. Interest in developing a four-year baccalaureate degree program in pharmaceutical sciences was generated by the desire of the faculty to expand the educational base of the school in the health-related sciences and the projection that graduates of the bachelor of sciences in pharmaceutical sciences program will help meet current and future societal needs in these fields of study.

Definition and General Description of the Program

Schools of pharmacy, as well as schools of medicine, have traditionally focused on the medically related life sciences. While schools of medicine generally have not become involved in undergraduate education, schools of pharmacy have evolved professional programs producing pharmacists and pharmaceutical scientists in direct collaboration with colleges of arts and sciences. Pharmaceutical sciences represents, in one sense, the collective basic science that underlies pharmacy. Rooted in discovery and development of therapeutics, pharmaceutical scientists seek to identify and understand chemical, biochemical, pharmacological, toxicological and other fundamental processes necessary to define and sustain the desired therapeutic effect. Pharmaceutical science and pharmacy itself both clearly require early training in biology, chemistry and physics. While students in these more basic disciplines move on to increasingly specialized courses of study indigenous to those separate sciences, students of pharmaceutical sciences, or related life sciences, evolve in a course of study which continues to stress a cross-fertilization of ideas of fundamental biology and chemistry while focusing on the complexity and balance of living systems.

Students in the pharmaceutical sciences degree program will be broadly trained during the early stages of the curriculum in the arts, humanities and social sciences while achieving a broad early emphasis in the natural sciences and a later specialization within the chemical and pharmaceutical sciences. The program of study will sharpen their cognitive and affective skills consistent with other alternative programs at the UMKC campus. The structure, diversity and functional characterization of living systems will be studied, examined, and understood with emphasis on the nature of disease, the disease process, and the design and development of drugs and dosage forms.

Career Applications

Students in the B.S. in pharmaceutical sciences program will be prepared to begin specialized study at the graduate level in a number of pharmaceutical sciences. They may directly enter the work force in the biomedical or pharmaceutical industry and make a significant contribution to the health and well-being of society through the design and development of novel therapeutic agents or processes. More importantly, their understanding of the interactions between environmental chemicals and humans will make them attractive applicants for positions in regulatory agencies and industries dealing with such issues. The advanced graduate and postgraduate education which some will seek will result in a higher level of scholarship and the potential for a more fundamental contribution.

The specific demand for students trained at the B.S. level in pharmaceutical sciences is increasing. In the pharmaceutical industry, graduates with this specific training have been sought as technical assistants in pharmacological and pharmaceutical laboratories and related areas where the B.S. trained biologist or chemist would not be expected to be as attractive a candidate.

It is widely acknowledged that schools and colleges of pharmacy need to increase the number of B.S.-trained pharmaceutical scientists who will enter their graduate programs. The graduates of Ph.D. programs in pharmaceutical sciences are in increasing demand in both academia and the pharmaceutical industry, and are expected to provide the primary base from which the professorate of colleges and schools of pharmacy is renewed and continued. Graduates with a B.S. in pharmaceutical sciences also can apply for sales positions in the pharmaceutical industry.

Advising

Students will receive academic advising from professional staff in the Pharmacy Student Services Office, as well as a faculty adviser. Applicants may elect to complete the first two years of the B.S. in pharmaceutical sciences curriculum at another accredited college or university and then transfer to UMKC. Students planning to transfer coursework should check with the Pharmacy Student Services Office to verify course transfer equivalencies from other institutions.

School Activities

Advising System

On entry into the pharmacy program, each student is assigned a professional development adviser (PDA). The PDA acts as a mentor during the program.

It is particularly important that students regularly meet with their PDA to ensure that they are meeting all requirements.

The PDA's role is to counsel and advise students, based on each student's individual needs. If students are experiencing difficulties, whether academic, financial or personal, or if they would like more in-depth information about various facets of the curriculum or career alternatives, they should seek counsel from the PDA. The advisers are familiar with the various sources of assistance and will help students seek the best solution to their problems. Building a strong relationship with the PDA is strongly encouraged.

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

Student Life

Student Government

The student body annually elects a Executive Pharmacy Student Council from each campus, which consists of the president, president-elect (KC), vice president, membership vice president, secretary, historian, treasurer and student pharmacy advocacy representative of the student chapter of the American Pharmacists Association, the Academy of Student Pharmacists (ASP), one Student Government Association representative and two representatives from each professional class. This group supervises the annual student activities budget process and recommends students to represent the student body on various campus committees. As issues and concerns arise, the voice of student pharmacists are expressed at bi-monthly executive meetings.

The Student ASP Script

A student-administered, student-oriented newsletter is published two-three times each semester by the Academy of Student Pharmacists (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

Academy of Managed Care Pharmacy (AMCP)

AMCP is the national professional society dedicated to the concept and practice of pharmaceutical care in managed health care environments. Its mission is to promote the development and application of pharmaceutical care in order to ensure appropriate health care outcomes for all individuals. Its sole purpose is to represent the views and interests of managed care pharmacy. The UMKC Chapter of AMCP members participate in programs such as Kansas City Antibiotic Taskforce (KART). The KART program teaches elementary school children about germ transfer and the importance of washing hands. Members also participate in pharmacy and therapeutics competitions at the national level. Membership in the organization helps to expose student pharmacists to the practice of managed care pharmacy.

Academy of Student Pharmacists (ASP)

This professional organization is the student branch of the American Pharmacists Association (APhA). ASP provides a means for pharmacy students to become involved at the state, regional and national levels in the pharmacy profession. Members annually send delegations to the regional and national meetings of the association. The UMKC ASP chapter has been recognized numerous times at regional and national levels for its many professional and service activities.

The local chapter acts as the student governing body for the School of Pharmacy and represents the pharmacy students in the campus Student Government Association. Membership is encouraged of all pharmacy students. Pre-pharmacy students also are eligible to join. Membership in ASP includes subscriptions to several professional publications such as the Journal of the American Pharmacists Association, Pharmacists.com and the Missouri Pharmacist. In addition, membership entitles a student to discounts on books, malpractice insurance and car insurance.

Community service is a major part of professional career development and outreach. Through nationally sponsored service projects like Operation Diabetes, Operation Immunization, and Heartburn Awareness along with local chapter initiatives such as ROOt for Health, Project Outreach and Asthma Awareness, students have a direct impact on the health of their community while promoting the role of the pharmacist.

Professional aspects of the organization include hosting a wealth of speakers from various aspects of the pharmacy profession to discuss opportunities and necessary training. These bi-monthly meetings allow students to expand their career paths and network with students from other classes.

ASP is not all work though. Its members reach across the borders and plan social events with neighboring schools of pharmacy to promote lasting relationships.

The National Community Pharmacists Association (NCPA)

The National Community Pharmacists Association is a national organization dedicated to representing pharmacists who practice in the independent community setting. Membership in NCPA provides an excellent opportunity for students who are interested in independent pharmacy practice to network and make contacts with pharmacy students and practitioners.

Rho Chi

The Alpha Omega chapter of this pharmaceutical honor society was established at UMKC in 1954. Eligibility is limited to students who have completed five semesters of the scholastic work applicable toward the doctor of pharmacy degree. To be invited to membership, students must have a minimum GPA of 3.0, be in the upper 20 percent of their class and have shown evidence of good character and leadership.

Kappa Epsilon

Kappa Epsilon is a professional pharmacy fraternity open to all pharmacy, pre-pharmacy, and allied health students, whose mission is to empower its members to achieve personal and professional fulfillment by developing their confidence, self esteem, interpersonal skills, and leadership vision and represent the interest of the members to healthcare professionals and the community at large. The Omega Chapter of this national organization was established at UMKC in 1958. Each year the chapter sponsors certain worthwhile projects for the school and the community including Breast Cancer Awareness Month, Poison Prevention and a Patient Assistance Program at the Jackson County Free Health Clinic.

Kappa Psi

This national professional pharmaceutical fraternity was founded in 1879 and offers membership to both men and women. The Gamma Theta Chapter of Kappa Psi was established at UMKC in 1957. Steeped in tradition, its purpose is to maintain the highest ideals of pharmacy through ethics, scholarship and fellowship. Many social and professional activities are planned each year with emphasis on campus and community service projects.

Phi Lambda Sigma

Phi Lambda Sigma is the national pharmacy leadership society which promotes the development of leadership in pharmacy, especially among pharmacy students. The society encourages participation in all pharmacy activities. Membership crosses fraternal and organizational lines to include pharmacy students, faculty, alumni and honorary members. Students must be nominated for membership and must have shown evidence of good character and leadership.

Student Society of Health-System Pharmacists (SSHP)

The Student Society of Health-System Pharmacists (SSHP) purpose shall be to provide students in the School of Pharmacy with an understanding of career opportunities in health-systems pharmacy; provide knowledge of the preferred credentials for a career in health-systems pharmacy; and encourage participation in local, state, and national societies as a student and as a pharmacist after graduation. During the academic year, SSHP sponsors events to include residency information roundtables, clinical skills competition, and presenters from local, state and national organizations.

Scholarships, Special Awards and Financial Assistance

The Dean's List

At the end of each semester, the names of full-time doctor of pharmacy and bachelor of science in pharmaceutical science 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:

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.

Bachelor of Science in Pharmaceutical Sciences (BSPS)

Summa, Magna and Cum Laude Latin Honors decisions for BSPS students will be awarded based upon an average of the GPAs of students receiving the BSPS during the previous two years.

- No more than 5% of the graduating class may be awarded the BSPS with Summa Cum Laude honors.
- No more than 5% of the graduating class may be awarded the BSPS with Magna Cum Laude honors.
- No more than 10% of the graduating class may be awarded the BSPS with Cum Laude honors.

Adjustments to the GPA minimums will be made if necessary in order not to exceed the maximum percentages. In addition, BSPS students must have had no periods of probation and no incidents of unprofessional behavior.

Graduation Awards Banquet

An annual awards recognition program is held at the end of the final term in conjunction with the doctor of pharmacy graduation banquet. 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 financial aid 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 financial aid 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 to the graduating student who has done the most for the student branch of the association. Selection is made by the 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.

GlaxoSmithKline Award

An personalized certificate and four reference books published through the American Pharmacists Association is awarded from GlaxoSmithKline Pharmaceuticals of Philadelphia, Pa., to a member of the graduating class for superior achievement in clinical pharmacy patient care.

Lilly Achievement Award

The Eli Lilly Company of Indianapolis, Ind., presents a trophy to a member of the graduating class for superior scholastic and professional achievement.

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. The recipient must be present at the graduation awards banquet to receive the award.

Merck Award

Merck & Company Inc. of Rahway, N.J., presents a Merck Manual and Merck Index to two 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.

Perrigo Award

The Perrigo Company of Allegan, Mich., awards a stipend and hand-engraved wall plaque to a graduating student in recognition of excellence in nonprescription medication studies.

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 Organizational Awards

Honors are presented to graduating students based on a combination of scholastic achievement, strengths of character, dedication and leadership evidenced during residency in the School of Pharmacy as a member of a particular student organization. Selection is made by the respective pharmacy student organizational officers.

Roche Pharmacy Communications Award

Roche Laboratories, a division of Hoffman-La Roche Inc. of Nutley, N.J., presents an engraved plaque to a graduating Pharm.D. student demonstrating outstanding communication skills in clinical pharmacy coursework.

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

Fred Angle Scholarship

This scholarship was established by Christina Ferguson, a 2007 alumnus, in honor of her grandfather, Fred Angle. It 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 Bisceglia Memorial Scholarship

A gift was made by Bud Bisceglia, a 1953 alumnus, in memory of his wife, Mary, for a memorial scholarship. The Mary Bisceglia Memorial scholarship is awarded to a second- or third-year Pharm.D. student interested in community pharmacy practice.

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.

G. Thomas Burns, R.Ph. Memorial 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 third, fourth or fifth year in the School of Pharmacy with an expressed interest in a career in an independent pharmacy with plans to practice in either the Missouri or Kansas metropolitan area following graduation. Student applicants for the Burns Memorial Scholarship who have a past working experience with the U.S. military and/or positive leadership involvement with the State, county or local legislature will also be given preference in the selection process.

Carthage Pharmacy Services, Inc. Scholarship

One student scholarship will be disbursed each year to a student at the UMKC School of Pharmacy who demonstrates financial need, is eligible to receive financial aid and is in good standing academically. Preference will be made to a student who is a high school graduate of Jasper, Lawrence, Green or Bates counties in the State of Missouri or Cherokee or Miami counties in the State of Kansas and also to a student who indicates a preference for a career in an independent pharmacy following graduation and/or a preference to work in one of the counties listed in the above criteria.

Century Club Grant

The UMKC Pharmacy Foundation awards this grant to a third-year Pharm.D. student who intends to practice in a hospital or other clinical setting.

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, MO and indicates a preference for a career in an independent pharmacy, they would then qualify for criteria (a) and (c) listed above.

Dean's Advisory Council 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.

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.

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 was established in memory of Kathy McClary Fife, a 1975 alumnus, by her brother Bert McClary (class of 1966) and family. It 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. McClary and the Executive Director of the Pharmacy Foundation.

Spencer S. Glenn Memorial Scholarship

In memory of Spencer S. Glenn, a scholarship recognizing 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.

The 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.

George Guastello Scholarship

This scholarship was established in 1996 by the Guastello family and 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.

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.

Kavanaugh Charitable Trust Scholarship

This scholarship was established by Paul and Debbie Kavanaugh and shall be awarded to a doctor of pharmacy student based on evidence of financial need.

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.

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.

Alexander and Mary Margolis and Bernard A. Margolis Perpetual Memorial Fund

A bequest through the estate of Bernard A. Margolis was established in 1994 for a worthy pharmacy student enrolled in years one through five of the professional program who has financial need.

Wes McIntire Scholarship

This scholarship was established in memory of UMKC doctor of pharmacy student and Kappa Psi Brother, Wesley McIntire. It 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 McMahan Grant

A stipend is awarded to a second professional year student who represents the caring and professional attitudes of Leo McMahan.

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.

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.

Jim Newman Memorial Scholarship Fund

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.

Kit Ngoc Nguyen, Pharm.D. Scholarship

One student scholarship will be disbursed each year to a student at the UMKC School of Pharmacy who is eligible to receive financial aid and is in good standing academically. Preference will be made to students who demonstrate financial need and plan to practice in an independent or community pharmacy upon graduation. It is intended that the recipient use this scholarship for purchasing books or other needed supplies.

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.

Owen Healthcare Scholarship

A matching fund program through Owen employee donations to provide a scholarship for a top academically ranked second- or third-year pharmacy student with financial need. This award is not awarded every year.

Ozark Society of Health-System Pharmacists Award

Awarded to a full-time student enrolled in years three through five of the doctor of pharmacy program who has a 3.0 GPA or higher. Preference will be given to students from the Southwest Missouri area (Vernon, Barton, Jasper, Newton, McDonald, Barry, Lawrence, Dade, Cedar, Polk, Greene, Christian, Stone, Taney, Ozark, Douglas, Webster, Wright, Texas, Howell, Dallas and Laclede counties).

PBA Health / TrueCare Pharmacy Scholarships

PBA Health / TrueCare Pharmacy, the Midwest's first interdependent chain of independent pharmacists, awards

scholarships 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 by the Pharmacists Mutual Insurance Cos. of Algona, Iowa, to a second-year doctor of pharmacy student who intends to practice pharmacy in a community setting after graduation.

Pharmacy Foundation Memorial Scholarship

Awarded to a second-year student recognized for his or her earnest pursuit of a doctor of pharmacy degree and intent to practice in a community setting after graduation.

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.

The 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.

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.

The Joseph G. Shalinsky Scholarship

This scholarship was established in 1996 by the family of Joseph G. Shalinsky. 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.

The 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 was established by Pete (1986 alumnus) and Jude (1979 alumnus) Spalitto. It 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, established in 2000, 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, R.Ph. 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

The funds of the Evelyn F. Suffecool and Esther C. Plank endowments will be used to award scholarships to Pharm. D. students.

Harry N. Tishk Scholarship

Awarded to a first professional Doctor of Pharmacy student with evidence of financial need. The student must have been

a provisional student the year prior to receiving the award. This scholarship fund was created in honor of Harry N. Tishk, a 1964 alumnus.

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

The Wal-Mart Corporation awards this scholarship 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.

Mathew W. "Bill" Wilson Scholarship

In honor of Matthew W. "Bill" Wilson, a 1950 alumnus of the school, this scholarship is awarded to a third-year professional student whose integrity and professionalism matches that of Bill Wilson.

Wilson Family Scholarship

This scholarship was established by Marcus (class of 1996) and Melissa (class of 1998) Wilson. Preference for the award is given to an applicant who is a high school graduate of Bates, Morgan or Jasper counties in Missouri, or Cherokee, Miami or Johnson counties in Kansas. Preference is also given to an applicant who indicates as their first choice a career in an independent pharmacy following graduation and/or a preference to work in one of the aforementioned counties.

Larry Windmoeller 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

The Windmoeller/MMSHP Scholarship will be awarded to a student in UMKC School of Pharmacy satellite program with the following criteria:

- a. Student is a member of the Missouri Society of Health-Systems Pharmacists
- b. Student is presently employed by a health-systems pharmacy
- c. Student is a high school graduate of Boone, Cole, Cooper or Callaway counties in the state of Missouri
- d. Student is currently a Missouri resident
- e. The student should be in the high need category for financial aid.

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.

Other Financial Assistance and Awards

American Institute for the History of Pharmacy Certificate

This award recognizes and encourages superior achievement in pharmacohistorical study or activity by a pharmacy student.

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.

Kmart Scholarship

Second- or third-professional-year Pharm.D. students with an interest in pursuing a career in community pharmacy and who are employed by Kmart as a summer intern are eligible for the Kmart Scholarship. A special application is required and can be obtained through the Kmart Corp.

Facts & Comparisons Scholarship for Postgraduate Study in Drug Information

This \$2,500 scholarship is awarded to a Pharm.D. candidate entering the last year of the program and who is interested in pursuing advanced training in drug information pharmacy practice.

Searle Fellowships in Pharmacy

First-, second- and third-place awards beginning at \$7,500 are awarded to Pharm.D. candidates entering the last year of the program who show leadership potential, professional development and educational achievement.

UNITED DRUGS Scholarship Program

A scholarship for a fourth- or fifth-year doctor of pharmacy student involved in pharmacy related student affairs and service to the community, preferably in a leadership capacity. The qualified student must have a minimum overall 2.5 GPA and an interest in independent pharmacy practice.

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 may be obtained by contacting the board of pharmacy of the state concerned.

Students 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 by the start of semester three 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 registration 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 Web site <http://pr.mo.gov/pharmacists.asp> 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 choose from in which their professional skills can be applied. The salary range will vary with the location and type of practice. However, the annual starting salary in the Midwest for a pharmacist ranges from \$85,000 to \$120,000.

The community environment, including both private and corporate-owned pharmacies, offers the pharmacist the opportunity to practice, or to assume management positions. Organized health care institutions (hospitals, nursing homes and managed health care facilities) also offer the practitioner exciting practice opportunities.

Many nontraditional services are provided by pharmacists in the community including home nutrition, nuclear pharmacy, nursing home consultation and long-term care.

Graduates may choose to enter careers in the pharmaceutical industry in product development and control, marketing and manufacturing, management, sales and public relations and advertising. Career opportunities for pharmacists are available in state and federal government service in staff and supervisory positions in the U.S. Public Health Service, Department of Veterans Affairs, Food and Drug Administration, Bureau of Narcotics and Dangerous Drugs, in-state health agencies and in all branches of the armed services.

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 and Toxicology.

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. Students are responsible for familiarizing themselves with all course requirements and assignments.

Students are to report absences to instructors as outlined in individual course policies (e.g., syllabus, course outline). Absences for official school or University activities will be handled through the dean's office. The dean's office must be notified prior to the event or activity. In either event, any notice sent to instructors 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 school 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 instructor. Instructors do reserve the right to hold examinations outside of regularly scheduled class times. Such examinations will be noted in the University schedule of classes.

Students will 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 instructor.

Immunizations

Adequate protection for students and patients against certain diseases requires standard immunizations. Submission of immunization certificates are a condition of acceptance and must be on file in the Office of Experiential Programs. MMR proof is required prior to beginning the First Professional Year. The remaining immunizations and tests must be on file prior to enrollment in Pharmacy 7310 and/or prior to beginning summer Introductory Pharmacy Practice Experiential Rotations in the summer between the Third and Fourth Professional Years. These proofs must remain current through the last advanced pharmacy practice experience rotation. Students are required to have:

- The three-injection series of the Hepatitis B vaccination.
- Vaccination against or proof of chicken pox immunity.
- Two MMR (measles, mumps, rubella) vaccinations.
- A yearly tuberculin skin test (a chest x-ray is required if skin test is positive) completed as a condition of advancement.
- Additional tests may be required.

Newly enrolled students will receive information regarding immunization provider options at orientation.

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. For a student to be excused from any of the required courses, a petition 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 Probation

Doctor of Pharmacy students are placed on academic probation if they receive any of the following:

- Less than a 2.0 term or cumulative grade point average [GPA], with no grades of D, F, WF, or NC in any one semester.

To remove themselves from probation, students must receive not less than a 2.0 term GPA and must raise their cumulative GPA above 2.0 in the next academic semester.

All such cases of probation will be reviewed by the Committee on Admissions and Academic Requirements to determine the reasons for the unsatisfactory progress. Students on probation will have an advising hold placed on their record and will not be able to register until the advising hold is removed.

Academic Dismissal

Doctor of Pharmacy students are considered ineligible to progress in the Pharm.D. program under any of the following conditions:

- Receipt of a D, F, WF, or No Credit 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 for more than two non-consecutive semesters.
- Receipt of two consecutive semesters of less than a 2.0 cumulative GPA.

All such cases of ineligibility will be reviewed by the school's dean or designee to determine the reasons for the unsatisfactory progress. The dean or designee will then either propose a program whereby the student might make up the deficiencies or recommend termination.

If a student's petition for readmission is approved, the student must sign an agreement for the program proposed by the dean or designee to correct the deficiencies and will be governed by the signed agreement until the conditions stipulated in it have been satisfactorily met.

First Professional Year students who become academically ineligible to continue at the end of the first semester may not petition for re-admission and must reapply to the Pharm.D. program through the regular admission process.

Students who withdraw from required coursework are ineligible to continue in the regular curriculum unless course equivalents can be successfully completed during the summer term. A student who withdraws from a required course will not be allowed to matriculate.

All students are given the terms governing academic performance on entering the School of Pharmacy.

Student Conduct

All students entering the School of Pharmacy receive a copy of the University of Missouri Student Conduct Code. A student proved to have illegally obtained, sold or used a controlled substance shall be permanently dismissed from the School of Pharmacy.

Student Honor Council

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.

Standards of Professional Attire and Classroom Etiquette

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. Abiding by these Standards at the UMKC School of Pharmacy is a piece of the educational process that establishes esteem and responsible behaviors.

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:

1. Certification in Basic Cardiac Life Support (completion of the Health Professionals BCLS certification) each year starting prior to enrollment in Pharmacy 7310 and/or prior to beginning summer Introductory Pharmacy Practice Experiential [IPPE] rotations between the Third and Fourth Professional Years. Certification must remain current throughout the entire program and is required for progression to the next professional year.
2. Certification in First Aid each year starting prior to enrollment in the Pharmacy 7310 and/or prior to beginning summer Introductory Pharmacy Practice Experiential rotations. Certification must remain current throughout the entire program and is required for progression to the next professional year.
3. Licensure as a Missouri Intern Pharmacist each year starting prior to enrollment in the Second Professional Year. Licensure must remain current throughout the entire program and is required for progression to the next professional year.
4. Proof of pharmacy intern liability insurance prior to enrollment in Pharmacy 7310 and/or summer IPPE and valid throughout the program.
5. All students must successfully complete the University of Missouri HIPAA [Health Insurance Portability and Accountability Act] tutorial yearly prior to beginning Introductory and Advanced Pharmacy Practice Experiences.
6. Any student completing Introductory or Advanced Pharmacy Practice Experiences at the University of Missouri Hospital and Clinics is required to complete the University of Missouri Code of Conduct online tutorial.
7. Proof of all required immunizations as noted prior to enrollment in the First Professional Year [two MMRs] and prior to enrollment in Pharmacy 7310 and/or prior to beginning summer IPPE rotations [Hepatitis B, Chicken Pox, negative TB] and valid throughout the program.
8. Students are required to have a laptop computer prior to beginning the Third Professional Year.
9. Attendance and participation during the Doctor of Pharmacy orientation sessions prior to full matriculation into the First Professional Year unless previously excused, in writing, in advance of the event by the dean or designee.
10. Attendance at all Pharmacy Grand Rounds unless previously excused, in writing, in advance of the event by the dean or designee.
11. Attendance and participation during the third professional year in the School of Pharmacy Professional Dedication Ceremony held in Kansas City unless previously excused, in writing, in advance of the event by the dean or designee.
12. Attendance and participation during the fifth professional year at the School of Pharmacy Career Enhancement and Professional Preparation Day held in Kansas City unless excused by the dean or designee.
13. Attendance and participation in seminars, colloquia and workshops thought to be beyond the scope of education provided in the curriculum as requested by faculty and staff. Attendance is required unless previously excused in writing in advance of the event by the dean or designee.

Written English Proficiency Test Requirement

Students enrolled in the doctor of pharmacy and bachelor of science programs must complete the Written English Proficiency Test (WEPT). The University requires that all students successfully complete ENGLISH 110 and ENGLISH 225. At the end of ENGLISH 225, the WEPT is administered. Any student failing to pass the WEPT twice will be required to take ENGLISH 299. Completion of English 299 will not count toward the degree, however will satisfy the WEPT requirement for students who earn a C- or better in the course. All students who have completed English I and II elsewhere are required to take the WEPT. They, too, must abide by the results of the exam to be eligible for graduation. The WEPT is given twice each semester; the dates of the test appear regularly on the academic calendar. Students entering the doctor of pharmacy program after having earned a baccalaureate degree from a regionally accredited, English speaking country are exempt from the WEPT requirement. The WEPT must be successfully completed prior to enrollment in a writing intensive course {BSPS students} or prior to matriculation into the Third Professional Year {Pharm.D. students}.

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 committee on admission and academic requirements. 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 clinical 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 clerkship rotations, living and travel expenses are the responsibility of the student.

Criminal Background Checks

The University, on behalf of the School of Pharmacy, agrees to inform students that as a condition of 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. The affiliated hospital/institution hereby understands and agrees that the decision to permit a student to participate at that affiliated hospital/institution 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.

Liability Insurance

Students who are completing internship requirements or who are enrolled in academic service learning or introductory and advanced pharmacy practice experiential rotations must obtain pharmacy liability insurance. Students must be covered by pharmacy liability insurance prior to the first day of a school, sponsored service learning experience or experiential rotation. Students should contact the Pharmacy Student Services Office or the Office of Experiential Programs for information.

Drug Screening

Pharmacy students may be subject to random drug screens as a condition of participation in patient care activities (Academic Service Learning, introductory and advanced pharmacy practice experiential rotations). Students wishing assistance for a drug related impairment may voluntarily seek counsel through the UMKC Counseling Center, the School of Pharmacy's PAALS program, or other available treatment centers. Treatment does not guarantee a student's participation in patient care activities.

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.

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 faculty adviser and professional staff in the Pharmacy Student Services Office to stay apprised of program requirements in effect.

Requirements for M.S. Degree Conferral

In addition to completing the M.S. degree requirements listed in this section, students must adhere to all requirements for the graduate degree sought and related stipulations noted in the [General Graduate Academic Regulations and Information](#) section of this catalog.

Note: Program requirements and course descriptions are subject to change without notice after publication of this catalog. Pharmacy graduate students are encouraged to remain in contact with their major faculty adviser to stay apprised of program requirements in effect.

Non-Degree Seeking Graduate-Level Students

The School of Pharmacy recognizes that area residents employed in the pharmaceutical industry and related organizations may not desire to pursue a graduate degree, but may wish to take an occasional graduate course to update their knowledge base. Persons with baccalaureate degrees in pharmacy, chemistry or biology who have completed the appropriate prerequisite coursework for the courses they wish to undertake may request classification as non-degree-seeking graduate students. No more than 12 credit hours may be taken as a non-degree seeking student classification. Enrollment in any School of Pharmacy course requires a completed UMKC application form and approval of the course coordinator and director of pharmacy student affairs.

Master of Science in Pharmaceutical Science

Admission Requirements

All applications to master's programs in the School of Pharmacy must be made through the UMKC Admissions Office. An applicant must meet the general requirements of the University to be considered by the School of Pharmacy.

Applications are reviewed by the appropriate division and must be approved by the graduate programs committee of the school, composed of professors who have appointments to the University graduate or doctoral faculty, and by the dean of the School of Pharmacy.

Admission to the graduate programs in the School of Pharmacy is contingent on the ability of the graduate faculty to accept additional graduate students and the availability of space and funding in the proposed area of emphasis.

Thus, worthy candidates may not be accepted due to a lack of a match in students' interests to faculty availability and other considerations.

Requirements for admission to the master of science program in the School of Pharmacy include:

- A professional degree in pharmacy or a baccalaureate degree in a related-science field.
- An aggregate minimum undergraduate GPA of 3.0 for students graded on a 4.0 basis, a first-class degree for students graded on the British system or equivalent undergraduate achievement for others. (A prospective faculty adviser may require more stringent standards in the emphasis area and may recommend acceptance based on consideration of other factors.) (For those students whose emphasis area is pharmacology and toxicology, a minimum 3.5 GPA is required on all post-baccalaureate work.)
- Submission of three letters of reference bearing on the academic and research potential of the applicant from individuals who have in-depth knowledge of evaluating the applicant's ability and potential for graduate level study.
- Submission of scores obtained in the Graduate Record Examination (GRE). A minimum score of 1800 is required. (For those students whose emphasis area is pharmacology and toxicology, a minimum combined score of 1200 for the verbal and quantitative areas and the minimum score on the analytical writing portion of the GRE must be 4.5 or higher.)
- For students whose primary language is not English, scores from the Test of English as a Foreign Language (TOEFL) must be submitted. A minimum TOEFL score of 580 (paper) or 237 (computer) is required.
- Foreign students must meet financial independence criteria established by the University.
- Students whose native language is not English must follow the UMKC English Proficiency Requirements for International Students.

Although new students pursuing the pharmaceutical sciences emphasis are accepted during all terms, because of course sequencing, it is recommended that students enter in the fall term. The priority deadline for application to the M. S. program is Feb. 1 for fall entry and Sept. 1 for Spring entry. Due to course sequencing, new pharmacology and toxicology emphasis students will preferably be accepted in the fall term. To have credentials included in the review process, applicants should submit GRE scores and all other necessary supporting documentation no later than the priority deadline.

Part-Time Graduate Students

Once all admission requirements have been satisfied, students admitted to the master of science in pharmaceutical sciences emphasis area or doctoral students whose coordinating unit is pharmaceutical sciences may enroll part time. Scientists who are employed in the Kansas City area may complete graduate study on a part-time basis by electing up to six credit hours each semester. However, the student must satisfy residency requirements and time limit restrictions of the School of Graduate Studies and the School (or its disciplines) before a degree is conferred. Research toward the thesis or dissertation must be independent of the projects ongoing at the student's place of employment. Research must be conducted in School of Pharmacy laboratories during at least two weekdays and one weekend day each week for one year. Students whose coordinating unit or emphasis area is pharmacology and toxicology should contact the division chair for separate regulations in this area.

Degree Requirements

Prior to full admission in the School of Pharmacy, graduate students in the pharmaceutical science or pharmacology and toxicology areas will have completed coursework in calculus, organic chemistry, physical chemistry, biochemistry, microbiology, human anatomy and physiology in University departments and schools outside the School of Pharmacy, when these courses are appropriate to their interests. They may also elect advanced courses related to their areas of interest. Because many courses have prerequisites, the sequence of emphasis area courses and elective courses is determined by the academic background of each student and their research interests and requires the concurrence of the faculty adviser.

Graduate students whose emphasis area is pharmaceutical science will be given a placement examination, administered by division faculty, to assess undergraduate preparation for graduate-level study. Deficiencies existing on admission must be discussed with the interim faculty adviser during the first semester 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.

Minimum Requirements for M.S. Degree

1. The M.S. degree requires completion of a minimum of 32 credit hours of graduate study including two credit hours of Pharmacy Seminar, three credit hours of statistics and six credit hours of Pharmacy 5599 Research and Thesis. Although students are required to enroll and successfully complete only two credit hours of Pharmacy Seminar, pharmacy graduate students (degree- and non-degree-seeking) are required to participate and attend all scheduled sessions of Pharmacy Seminar each semester.
2. Before full acceptance to a degree-seeking program, students will be selected by a faculty adviser who must be a member of the University graduate faculty. The faculty adviser and student will plan the degree program of study, contingent on approval by the supervisory committee and the graduate programs committee of the school. The faculty adviser and two additional graduate faculty members serve as the M.S. supervisory committee.

Emphasis Area Requirements

Following are the emphasis area requirements for the M.S. degree in pharmaceutical science:

Courses	Hours
Pharmaceutical Science Courses	10
Other Coursework	11
Statistics	3
PHARM 5580A Seminar	2
PHARM 5599A Research and Thesis Pharmacy	
-or-	
PHARM 5599B Research and Thesis Pharmaceutical Chemistry	6

Other graduate-level courses offered by the division or coursework in the Division of Pharmacology and Toxicology, Chemistry Department or the School of Biological Sciences may be taken with prior approval.

Following are the requirements for the M.S. degree in pharmaceutical science with emphasis in pharmacology and toxicology:

PHARM 5509	Basic Toxicology	3
PHARM 5519	Pharmacology I	4
PHARM 5520	Pharmacology II	5
PHARM 5615	Methods in Pharmacology and Toxicology	3
PHARM 5580C	Seminar*	2
PHARM 5599C	Research and Thesis	6
EDUC 5505	Statistical Methods I	3

A minimum of six credit hours must be chosen from the following optional courses:

PHARM 5521	Advanced Organic Medicinal Chemistry	3
PHARM 5531	Physical Pharmacy Equilibria	3

PHARM 5515	Drug Absorption, Distribution, Metabolism and Excretion	3
PHARM 5590AB	Receptor Pharmacology and Signal Transduction	3

* One credit hour of Pharmacy 5580C must be successfully completed in each academic year enrolled beginning with the second year. Attendance at all seminars is mandatory regardless of enrollment. Other graduate-level courses offered by the division or coursework in the Division of Pharmaceutical Science, Department of Chemistry or School of Biological Sciences may be taken with prior approval. Students with professional degrees in pharmacy will be required to take other advanced graduate-level courses that are offered.

M.S. Supervisory Committee and Program of Study

This committee comprises the faculty adviser and two other graduate faculty members recommended to the School of Graduate Studies by the student and faculty adviser. The faculty adviser, who serves as chairperson of the committee, and a majority of the members of a master's student supervisory committee must be full members of the graduate faculty. Therefore, no more than one member of a master's supervisory committee may be an adjunct graduate faculty member. A majority of the faculty making up the supervisory committee must be from the student's emphasis area. An adjunct member may not be counted toward the mandated representation from the emphasis area discipline. The supervisory committee must approve the plan of study and thesis research protocol submitted by the student.

Graduate credit for courses requires that the courses be at least 300- or 400-level and that a grade of B or better be obtained. A grade lower than B in a required 5500- or 5600-level course may be allowed to stand; however, the student's adviser and supervisory committee may require that the course be repeated.

Students enroll in courses with the approval of their faculty advisers. Within the first 12 hours of degree-seeking graduate study, the student has advanced to the point where a supervisory committee is appointed and the planned program of study is developed. The program of study must receive the approval of the supervisory committee and graduate programs committee.

A majority of the coursework applicable to any graduate degree at UMKC must be completed at UMKC. See the [General Graduate Academic Regulations and Information](#) section of this catalog for more information.

Comprehensive Examination for M.S. Candidates in Pharmaceutical Science

Students are required to pass written and oral comprehensive examinations on questions provided by the supervisory committee during the semester before the degree is to be conferred. However, the oral comprehensive exam may be incorporated with the thesis defense or final project. Generally, the written examination covers knowledge which should have been obtained in performance of coursework. The oral examination encompasses knowledge which should have been obtained in performance of research, as well as coursework.

The first comprehensive examination is written. Questions are submitted by each member of the supervisory committee, as guided by the chairperson. For students with an emphasis in pharmaceutical science, the division faculty, in conjunction with the supervisory committee, will submit questions for comprehensive exams. Once the written examination has been taken, the supervisory committee must convene to determine whether the student has passed. In the event that this examination is failed, the student may retake the examination within the next semester, but no sooner than 10 weeks after the first attempt. Failure to pass the second written examination results in dropping the student from the program.

On passing the written examination, the student and his or her major adviser will schedule an oral comprehensive examination at a time mutually agreeable to the supervisory committee. The general requirements of the oral comprehensive examination will be presented to the student in writing at least six weeks in advance of the date of the examination. A determination of pass or fail on the oral examination will be made by vote of the committee after the oral examination has been completed. In the event the oral examination is failed, the student will be given a second oral examination to take place no later than the semester following the failed examination. Failure to pass the oral examination a second time will mean the candidate is dropped from the program.

More than one negative vote on an M.S. oral or written comprehensive exam constitutes failure of the examination.

A minimum of three members of the supervisory committee must be present at the oral examination for the examination

to be held. If the examination is canceled for lack of the required number of examiners, it should be scheduled again as soon as possible.

M.S. candidates whose emphasis is pharmacology and toxicology are not required to take written or oral comprehensive exams. However, the supervisory committee may examine a candidate's basic pharmacology knowledge at the time of the final oral thesis defense.

Thesis Defense

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. See the Thesis and Dissertation Preparation and Approval Process listed under the School of Graduate Studies section of this catalog for regulations pertaining to thesis preparation. The defense is conducted only after the thesis has been certified for acceptance by the dean of the School of Graduate Studies and may not be administered when UMKC is not officially in session, nor on a weekend. The defense must be announced with an abstract at least two weeks in advance of the scheduled date of the defense.

The defense of the thesis is approved when a majority of the supervisory committee members recommend approval and sign the report of results form. Students must comply with all rules and regulations governing theses outlined under [Minimum Academic Regulations Specific to Master's Degrees](#) in the [General Graduate Academic Regulations and Information](#) section of this catalog.

Requirements for Retention

A cumulative GPA of 3.0 (B) or better must be maintained during each semester of enrollment in all work applicable to a graduate degree.

If a student does not maintain a cumulative GPA of 3.0 (B), eligibility to continue graduate enrollment will be determined in accordance with the probation policies of the School of Graduate Studies. See the School of Graduate Studies Requirements for Retention section of this catalog. Recommendations from the School of Pharmacy will be based on evaluations by the student's supervisory committee and the school's graduate programs committee, which reviews the progress of all graduate students at the end of each semester. The student is allowed one semester to return to good academic standing.

In addition to the above requirements, master's students in pharmaceutical science with an emphasis in pharmacology and toxicology who receive a grade below B in courses offered by the Division of Pharmacology and Toxicology will be required to repeat the course. A course may not be repeated more than once, and the repeated grade achieved must be a B or higher.

A student with an emphasis in pharmacology and toxicology who receives a grade of C in more than six credit hours or who receives a grade lower than C or NC is ineligible to continue the graduate program. A C grade achieved in courses approved and offered by the Division of Pharmacology and Toxicology must be repeated.

Doctor of Pharmacy

Curricular Outcomes Expected of Doctor of Pharmacy Graduates

"Graduates must possess the basic knowledge, skills, attitudes, and values to practice pharmacy independently at the time of graduation. In this regard, the college or school must ensure that graduates are competent to: [\[1\]](#)

- provide patient-centered care, through the ability to:
 - o design, implement, monitor, evaluate, and adjust pharmacy care plans that are patient-specific; address health literacy, cultural diversity, and behavioral psychosocial issues; and are evidence-based
 - o manage a successful patient-centered practice (including establishing, marketing, and being compensated for medication therapy management and patient care services rendered)
- provide population-based care, through the ability to develop and implement population-specific, evidence-based

disease management programs and protocols based upon analysis of epidemiologic and pharmacoeconomic data, medication-use criteria, medication use review, and risk-reduction strategies

- manage human, physical, medical, informational, and technological resources, through the ability to ensure efficient, cost-effective use of these resources in the provision of patient care
- manage medication use systems, through the ability to apply patient- and population-specific data, quality improvement strategies, medication safety and error reduction programs, and research processes to minimize drug misadventures and optimize patient outcomes; to participate in the development of drug use and health policy; and to help design pharmacy benefits
- promote the availability of effective health and disease prevention services and health policy through the ability to apply population-specific data, quality improvement strategies, informatics, and research processes to identify and solve public health problems and to help develop health policy

To be capable of the above, pharmacy graduates also must be able to:

- communicate and collaborate with patients, care givers, physicians, nurses, other health care providers, policy makers, members of the community, and administrative and support personnel to engender a team approach to patient care
- retrieve, analyze, and interpret the professional, lay, and scientific literature to provide drug information and counseling to patients, their families or care givers, and other involved health care providers
- demonstrate expertise in informatics^[2]
- carry out duties in accordance with legal, ethical, social, economic, and professional guidelines
- maintain professional competence by identifying and analyzing emerging issues, products, and services”

^[1] Adapted from CAPE Educational Outcomes, 2004

^[2] Competencies in informatics include basic terminology (data, information, knowledge, hardware, software, networks, information systems, information systems management); reasons for systematic processing of data, information and knowledge in health care; and the benefits and current constraints in using information and communication technology in health care. (*Adapted from recommendations of the International Medical Informatics Association*)

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 the 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 interprofessional health care team.

Application Procedures

Applications for the doctor of pharmacy program are accepted between Sept. 1 and Dec. 15 of each year for consideration for admission to the class entering the following fall. Admission to the School of Pharmacy 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. Complete UMKC Doctor of Pharmacy applications, which include supplemental materials, must be postmarked no later than Dec. 15 in order to be considered. For application forms and information about degree programs and requirements, prospective students can visit <http://pharmacy.umkc.edu/> or contact:

UMKC School of Pharmacy
Student Services Office
2464 Charlotte Street
Kansas City, MO 64108
(816) 235-1613
Fax: (816) 235-5562
pharmacy@umkc.edu

As part of the process for application to the Doctor of Pharmacy program, all of the steps listed below must be adhered to carefully and all required documents must be postmarked by or submitted to the UMKC Pharmacy Student Services Office no later than the Dec. 15 deadline, unless otherwise stated.

1. You must submit a completed UMKC Doctor of Pharmacy Application for Admission, to include supplemental materials and the application fee.

2. Official transcripts of all previous college coursework must be received by the School of Pharmacy Student Services Office. Applicants must have achieved a minimum 2.75 cumulative grade-point average {GPA} (on a 4.0 scale) and a 2.5 science/math grade-point average (on a 4.0 scale) on all college-level work completed through the end of the fall term preceding the year of entry to meet minimum eligibility requirements. Cumulative and science/math GPAs include all college-level coursework completed.
3. The Pharmacy College Admission Test (PCAT) must be taken and scores forwarded to the School of Pharmacy from the official testing agency no later than March 1.
4. One official recommendation form must be completed from the application packet.
5. 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.
6. Eligible applicants must complete a structured interview at the School of Pharmacy on the UMKC campus scheduled on a Saturday in March or April as a factor for admission. Applicants are notified by e-mail before their scheduled interview. Note: meeting minimum eligibility requirements does not automatically qualify an applicant for an interview. The student selection process is based on a multi-variant formula and the qualifications of the applicant pool. Factors considered include application materials submitted, results of the PCAT, collegiate scholastic achievement, collegiate science and math achievement, complexity of previous college work, recommendation form and recent leadership [including, but not limited to, campus and community involvement, health care and/or supervisory experience, honors and awards]. Based on the academic and application credentials of 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

Admission decisions are based, in part, on the criteria noted above and the results of a formal interview. Students will receive written notification of the school's decision concerning their applications on or prior to May 1 unless otherwise indicated.

Official supplementary college transcripts must be submitted to the Pharmacy Student Services Office upon completion of winter/spring and summer coursework. Acceptance is contingent on submission of a criminal background check, good academic and behavioral standing, satisfactory completion (grade of C or higher) of the specified minimum hours of pre-professional collegiate coursework and any other coursework completed during the winter/spring and/or summer term prior to admission. Those students approved for admission will be required to confirm their acceptance and submit an advance deposit to guarantee their places in the entering class. This deposit is applied to the first term's educational fee and is not refundable.

Curricular Requirements

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.

The five year professional course of study leading to the doctor of pharmacy encompasses 10 semesters. Coursework in the first professional year includes various required science courses and additional humanities and social science coursework, as well as introductory-level pharmacy courses.

In semesters three and four, students complete their basic science foundation courses, lecture and lab courses in the pharmaceutical sciences and continue the professional development series.

In semesters five and six, students engage in advanced lecture and laboratory coursework in the pharmaceutical and pharmacological sciences, introductory clinical sciences, finish the professional development series and select professional electives designed to reinforce the pharmacy career track. During the summer before the fourth year, students take part in introductory pharmacy practice experiences (IPPE).

In semesters seven and eight, Pharm.D. students pursue advanced coursework in the clinical sciences to include pharmacotherapeutics, evidence based medicine and health assessment, continue the next series of introductory pharmacy practice experiences (IPPE). During this period, students also finish professional electives.

The final two semesters encompass advanced pharmacy practice experiences (APPE). 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.

During the advanced pharmacy practice experiences the Pharm.D. student is expected to assume the clinical responsibility of a pharmacist under the direct supervision of a faculty member. The emphasis of the student's activities will be the management of pharmacotherapeutic and pharmacokinetic problems encountered with patients' drug regimens at the assigned practice site. Students will also be engaged in ongoing drug utilization reviews, patient and health provider education programs, and other pertinent activities involved in the provision of patient care.

While clinical responsibilities occur during all of the students APPEs, the primary focus will vary with a student's choice of elective experiential rotations. Health systems rotations will focus on the organizational, technical and administrative aspects of providing pharmaceutical care.

Pharm.D. students are required to complete approximately nine months of experiential rotations. 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 as noted on the School of Pharmacy Experiential Programs website at http://pharmacy.umkc.edu/experientialprograms/home_page.asp. All immunizations, as listed on the above website link, must be on file with the Office of Experiential Programs before academic service learning and IPPE and APPEs begin and must remain current through the last experiential rotation. Students on experiential rotations may not enroll in didactic courses outside of the required Pharm.D. curriculum without prior approval of the Director of Experiential Learning.

Doctor of pharmacy students are strongly encouraged to attend the American Society of Health-Systems Pharmacists Mid-Year Clinical Meeting in December to begin residency interviews.

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 must meet the following requirements in addition to the 31 credit hour prerequisite requirements:

Semester One

PHARM 7101 Professional Skills Development I 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 Pharmacy Calculations 2

PHARM 7125 Medical Terminology (a) 1
PHARM 7233 U.S. Health Care System & Marketing 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) Pharmacy 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 II	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
NURSE 5548	Advanced Pathophysiology	3
PHARM 7361	Pharmacology I	4
PHARM 7325	Professional Communications in Pharmacy	3
PHARM 7465	Economics of Health and Medicine	3
Professional Electives (c)		2
PHARM 7104	Professional Skills Development III	2

Total(a) 17.5 Semester Hours

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

Total(a) 16.5

(b) Pharmacy 7245 must be successfully completed during either the fall or spring semester.

Summer Semester

PHARM 7378	Introduction to Community Pharmacy Practice	2
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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 & Ethics	2
Professional Elective(s)(c)		4

Total(d) 19.5 Semester Hours

Semester Eight

PHARM 7326	Evidence Based Medicine	5
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PHARM 7345 Top 200 Drugs II(d)	.5
PHARM 7485P Health Assessment & Pharmacotherapy III	7

PHARM 7466 Pharmacy Practice Management Professional Elective (c)	3 2
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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.

- Home Health Care
- Principles of Nutritional Support
- Reproductive Biology
- Computers in Pharmacy
- Radiopharmaceuticals Nuclear Pharmacy and Medicine
- Hospital Pharmacy
- Islam and Modern Practice of Medicine and Pharmacy
- Academic Service Learning
- Pediatric Pharmacotherapy
- Comprehensive Diabetes Management
- Introduction to Dietary Supplement Therapeutics
- Oncology and Hematology Pharmacotherapy
- Social and Psychological Development Through the Life Cycle
- The Experience of Health in Aging
- Death and Dying
- Policies of Drug Use and Control
- Pharmacy Seminar
- Directed Individual Study
- Health Service Administration and the Health Professions

(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
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Semester Ten

Advanced Pharmacy Practice Experiential Rotations	Hours vary
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Required Introductory and Advanced Pharmacy Practice Experiences

PHARM 7404P	Drug Information Clerkship
PHARM 7406P	General Medicine I
PHARM 7407P	General Medicine II
PHARM 7409P	Health Systems Clerkship
PHARM 7410P	General Medicine III
PHARM 7412P	Community Pharmacy Practice Clerkship
PHARM 7418P	Elective Clerkship I
PHARM 7419P	General Medicine IV
PHARM 7420P	Elective Clerkship II

Optional Advanced Pharmacy Practice Experience

Students must complete all required Pharm.D. didactic coursework and a number of required documentation minimums prior to enrollment in the Introductory and Advanced Pharmacy Practice Experiences. Required documents must be on file in the Office of Experiential Rotations and must remain current through the student last rotation. Please see the School of Pharmacy Experiential Programs website at <http://pharmacy.umkc.edu/experientialprograms/homepage.asp> for a list of required documentation.

Graduation Requirements

To graduate, students must successfully complete all credit and non-credit requirements as listed. The curriculum includes a minimum of 195 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 195 hours, the following minimums must be met:

Mathematics/Basic Science coursework	53 hours
Pharmacy Didactic coursework	78 hours
Professional Electives	10 hours
IPPE and APPE Experiential Learning	42 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

Bachelor of Science in Pharmaceutical Sciences

Curricular Outcomes Expected of Baccalaureate Pharmacy Graduates

Domain I. Provide Pharmaceutical Care

Competency IA: Interprets and evaluates pharmaceutical data and related information needed to prevent or resolve health-related problems or to respond to information requests. Components:

- Understands basic principles of pharmacology, including mechanisms and theories in Pharmacokinetics and Bio-pharmaceutics, classification, mechanisms of drug actions, therapeutic uses, contraindications and toxic effects of the major classes or prescribed drugs, over-the-counter drugs and common dietary supplements.
- Assesses physical properties and chemical data.
- Evaluates laboratory test results and Pharmacokinetics and Bio-pharmaceutics data.
- Makes reasonable assumptions and/or draws reasonable conclusions when data are incomplete.

Domain II: Behavioral-Based Abilities. Displays habits, attitudes and values consistent with pharmaceutical care.

Competency IIA: Thinking. Components:

- Identifies, retrieves, understands, analyzes, synthesizes and applies information needed to make informed, rational and ethical decisions.
- Solves problems that require an integration of one's ideas and values within a context of scientific, social, cultural, legal, clinical and ethical decisions.

Competency IIB: Communication. Effective communication is clear, accurate, confident and appropriate to the situation. Components:

- Listens effectively.
- Uses spoken language effectively.
- Uses written language effectively.

Competency IIC: Ethical Decision Making. Components:

- Recognizes ethical dilemmas in all areas of professional life.
- Makes and defends rational decisions regarding professional situations within a context of personal values and professional ethics.

Competency IID: Social and Contextual Awareness. Components:

- Demonstrates an awareness of and value for diversity.
- Demonstrates competency within cross cultural interactions and settings.
- Evaluates different types of interpersonal behaviors and their roles in effective social interactions.

Competency IIE: Social Responsibility. Components:

- Participates in professional growth opportunities through volunteer activities in the community.
- Demonstrates an appreciation of the obligation to participate in efforts to help individuals and to improve society and the health care system.
- Advocates improved professional approaches to meet the pharmacy-related needs of society and individual patients.

Competency IIF: Self-Learning Abilities. Component:

- Self-assess learning needs and design, implement and evaluate strategies to promote intellectual growth and development.
- Deliver and receive constructive critique regarding professional performance.

Application

Admission to the program requires a student to complete the UMKC general application. Completion of supplemental materials currently are not required. Applicants must have achieved a minimum 2.5 cumulative college grade-point average and minimum 2.0 science/math grade point average to meet eligibility requirements for admission. Contact the Pharmacy Student Services Office at (816) 235-**1613** or send an e-mail to pharmacy@umkc.edu if you have questions regarding the degree program.

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 pharmaceutical 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 requirements for the degree program.

Description of the Curriculum

Semester One	Hours
ENGLISH 110 or ENGLISH 110A English I	3
BIOLOGY 108 General Biology I	3
BIOLOGY 108L General Biology I Lab	1
CHEM 211 General Chemistry I	4
CHEM 211L General Chemistry I Lab	1
General Educ Elective (COMM-ST 110)	3
Total	15
Semester Two	Hours
ENGLISH 225 or 225A English II	3
BIOLOGY 109/109L General Biology II	3
BIOLOGY 109I General Biology II Lab	1
CHEM 212R General Chemistry II	4
CHEM 212LR General Chemistry II Lab	1
General Educ Electives	6

Total	18
Semester Three	Hours
MATH 210 Calculus w/Analytical Geometry	4
CHEM 321 Organic Chemistry I	3
CHEM 321L Organic Chemistry I Lab	1
BIOLOGY 202 Cell Biology	3
General Educ Elective (U.S. Constitution)	3
General Educ Elective	3

Total	17
Semester Four	Hours
PHARM 7110 Pharmaceutical Calculations	2
CHEM 322R Organic Chemistry II	3
CHEM 322LR Organic Chemistry II Lab	1
PHYSICS 210 Physics /Lab	4
Statistics*	3
General Educ Elective	3

Total **16**

*Statistics course can be satisfied by successful completion of EDUC 5505 or STAT 235

Semester Five	Hours
PHARM 7341 Medicinal Chemistry I	3
LS-BIOC 365 Human Biochemistry I	3
LS-PHYS 399 Pharmacy Physiology I	3
General Educ Electives	6

Total **15**

Semester Six	Hours
PHARM 7344 Medicinal Chemistry II	3
CHEM 341 Analytical Chemistry I	4
LS-BIOC 366 Human Biochemistry II	3
LS-PHYS 400 Pharmacy Physiology II	3
General Educ Elective (writing intensive)**	3

Total **16**

** Students must pass the Written English Proficiency Test (WEPT) prior to enrollment in the writing intensive elective.

General CLEP credits may not be used to fulfill the mathematics, physics, or chemistry requirements.

Semester Seven	Hours
PHARM 7202 Pharmaceutics I	4
PHARM 7361 Pharmacology I	4
Pharmacy Capstone Course	2
CHEM 345R Instrumental Analysis	3
400/5500 level Science Elective***	3

Total **16**

Semester Eight	Hours
PHARM 7203 Pharmaceutics II	3
PHARM 7203L Pharmaceutics II Lab	1
PHARM 7303 Pharmacokinetics & Biopharmaceutics	4
PHARM 7362 Pharmacology II	5
PHARM 7463 Toxicology	2
Pharmacy Capstone Course	2

Total **17**

*** This optional elective brings the credit hours to 129. This elective is not necessary to achieve the minimum credit hours for a UMKC baccalaureate degree, but it allows the student to select a 400- or 5500-level course in chemistry or biology or a 5500-level course in pharmacy.

Students must complete the following general education requirements:

- ENGLISH 110 or 110A English I
- ENGLISH 225 or 225A English II
- 3 credit hours of fine arts from:
 - Art
 - Art History
 - Music
 - Theatre
- 3 credit hours of humanities course work from:
 - Foreign Language
 - Philosophy
 - Religion
 - additional English
 - Communication Studies
- 6 credit hours of social and behavioral sciences from:
 - Sociology
 - Geography
 - Criminal Justice
 - Psychology
 - Economics
 - additional History
 - additional Political Science
- One course covering the U.S. Constitution from:
 - HISTORY 101 or 102
 - POL-SCI 210
- One public speaking course COMM-ST 110
- 6 credit hours of higher order thinking courses from:
 - Western Civilization
 - Ancient History
 - Philosophy
 - Logic
 - Cultural Anthropology
- One 3 credit hour writing intensive course.

Students are encouraged to work with their faculty adviser in planning their capstone course work. Students may choose to complete a double major or double B.S. degrees in a related area. Students are also encouraged to seek out internship opportunities. Internship opportunities are usually paid experiences where a student can gain valuable, hands-on knowledge related to their program of study (Note: students may not obtain course credit through internships).

First Professional Programs

First Professional 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 the responsibilities listed above.

Preparing for a Pharmacy Education

To help prepare themselves for a pharmacy education, high school students should plan a course of study that includes a mathematics and science emphasis. Pre-pharmacy advisers are available on the campuses of most Missouri institutions of higher education. College students planning to apply for admission to the School of Pharmacy should consult these special advisers for assistance in planning their pre-pharmacy coursework. Students taking their pre-professional coursework at UMKC should contact the School of Pharmacy Student Services Office for advising on pre-pharmacy courses.

Program for Top High School Seniors

High school seniors with a minimum cumulative high school grade point average of 3.25 (on a 4.0, non-weighted scale) at the beginning of their senior year and whose ACT composite score is a minimum of 23 or higher (1060 SAT minimum) are eligible to apply for the Freshman Provisional Admission Program. High school students are encouraged to take their school's math-science option, if available, in order to prepare for the health professional curriculum.

As many as 30 provisional freshmen are accepted each year. Provisional students complete the pre-pharmacy coursework at UMKC and take the Pharmacy College Admission Test (PCAT) during their freshman collegiate year. Students accepted into the provisional admission program hold a reserve seat in the first professional year of the Pharm.D. program if freshmen collegiate year eligibility requirements are successfully completed. A student admitted provisionally must complete minimum standards and requirements during their freshman college year in order to be admitted into the Doctor of Pharmacy program the following fall semester. This includes completion of required pre-pharmacy coursework, meeting the minimum grade point average and PCAT score requirements, good behavioral standing, and passing a formal interview during the spring semester of their freshmen year.

The School of Pharmacy Provisional Application includes supplemental materials. Completed Provisional Application and supplemental materials, including an application fee, must be postmarked or submitted to the UMKC School of Pharmacy Student Services Office no later than the Dec. 15 deadline. Official scores from the ACT should be received no later than the Dec. 15 deadline, however, December ACT scores will be considered if official score reports are received no later than Jan. 15.

For special application forms and information about degree programs and requirements, prospective students can visit <http://pharmacy.umkc.edu>. Admission to the Provisional Admission program is competitive. Applicants who meet the minimum requirements for provisional admission may not be accepted due to space availability restrictions.

Pre-Pharmacy Requirements for College Transfer Students

A minimum of 31 credit hours of college work, including the specified pre-professional requirements listed below, must be completed prior to admission to the professional pharmacy program of study with a grade of C or better. 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. Pre-pharmacy courses may be completed at UMKC or at any accredited higher education institution as long as equivalents are met.

Pre-Pharmacy Curriculum/Semester Hours

English Composition*	6
Calculus with Analytical Geometry**	4
General Chemistry I & II with Lab	8
General Biology I & II#	6
Physics with Lab	4
Electives in Humanities and Social Sciences*	3-6
Minimum Required Hours	31

*Students attending institutions restricting freshman admission to the English Composition II course may substitute three additional hours of electives in the social sciences or humanities. A second semester of English composition may be completed on admission to the School of Pharmacy. All pharmacy students must successfully complete six hours of English composition, Communication Studies 110 or its equivalent, and pass the Written English Proficiency Test prior to enrollment in Pharmacy 7414.

**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.

Pre-pharmacy coursework must total a minimum of 31 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. Please see acceptable scores and courses at <http://www.umkc.edu/registrar/creditbyexam.asp#AP>. Check with an academic advisor in the School of Pharmacy regarding minimum score requirements and score and course transferability.

Pre-Medicine/Pre-Health

Pre-Medicine/Pre-Health Home Page

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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

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 Freshman English I
- ENGLISH 225 English II

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

College of Arts and Sciences Track

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711 E. 51st Street
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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.

However, 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 millennium 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 a 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](#) under the College's Interdisciplinary Minors and Concentrations section of this catalog for more information.

College of Biological Sciences Track

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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-medical 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 and holds social events.

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.

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 Business and Public Administration
- 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  ; assistant 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); 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

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** ; associate 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** ; chair, department of art and art history, and professor of art history; B.A. (Park College); M.A., Ph.D. (University of Iowa).

George Ehrlich; 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).

***P. Elijah Gowin** ; assistant professor of art; B.A. (Davidson College); M.F.A. (University of New Mexico).

Edward Hogan ; lecturer of art; B.F.A. (Kansas City Art Institute); M.A. (University of Missouri-Kansas City).

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** ; associate 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** ; assistant professor of digital media and photography; M.F.A. (School of the Art Institute of Chicago).

#***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** ; associate professor of art history; B.A. (University of Illinois-Chicago).

Chemistry

@ Associate or Adjunct Graduate Faculty

*** Members of UMKC Graduate Faculty**

Members of UMKC Doctoral Faculty

+ Located at UM-St. Louis campus

Chemistry

Keith R. Buszek ; associate professor of chemistry; B.S. (University of California, Irvine); Ph.D. (University of California, Los Angeles).

Kuang Lu Cheng; professor emeritus of chemistry; B.S. (Northwestern College, China); M.S., Ph.D. (University of Illinois).

John W. Connolly; professor emeritus of chemistry; B.S. (Xavier University); Ph.D. (Purdue University).

Wesley J. Dale; professor emeritus of chemistry; B.S. (University of Illinois); Ph.D. (University of Minnesota).

#* Jerry R. Dias ; professor of chemistry; B.S. (San Jose State College); Ph.D. (Arizona State University).

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 ; director of laboratories and associate professor of chemistry; 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 ; chair, department of chemistry, and 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 ; associate 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 ; 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** ; assistant professor of chemistry; B.A. (Point Loma Nazarene College); Ph.D. (University of Utah).

#***Charles J. Wurrey** ; executive associate dean and curators' distinguished teaching 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**; professor emerita of communication studies; B.A. (Michigan State University); M.A., Ed.D. (University of Arkansas).

Gregory D. Black ; professor emeritus of communication studies; B.S. (Bowling Green State University); M. A. (California State); Ph.D. (University of Kansas).

***Linda M. Collier** ; associate professor of communication studies; director of debate; B.A., J.D. (University of Missouri-Kansas City).

Angela C. Elam ; assistant professor of communication studies and radio producer; B.A. (Clemson University); M.F. A. (University of Georgia-Athens).

***Daven Gee** ; assistant professor of communication studies; B.A. (California State University, Chico & University of Hawaii, Hilo); M.F.A. (San Francisco State University).

#***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 ; assistant professor of communication studies; B.A. (Oberlin College); M.A., M.F.A. (University of Iowa).

#***Carol F. Koehler** ; associate professor of communication studies; B.A. (Rosary College); M.A., Ph.D. (University of Missouri-Kansas City).

Gaylord V. Marr; professor emeritus of communication studies; B.A., M.A. (University of Nebraska).

Donald H. Matthews ; director of black studies and associate professor of communication studies; B.S., M. A. (Northwestern University); M.Div. (The Pacific School of Religion, Berkeley); Ph.D. (University of Chicago).

Judith McCormick ; associate dean and assistant professor of communication studies; B.A., M.A. (Texas Tech University), Ph.D. (Kansas State University).

Peter Morello ; associate professor of communication studies; B.A. (University of Wisconsin-Madison); M.S. (Columbia University).

Michael Neer ; professor of communication studies; B.A., M.A., Ph.D. (University of Missouri-Columbia).

***G. Thomas Poe**  ; chair, department of communication studies, and 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).

Robert B. Unger  ; professor of communication studies and English; B.A. (University of Missouri-Columbia); M.P.A. (Harvard University).

Economics

@ Associate or Adjunct Graduate Faculty

* Members of UMKC Graduate Faculty

Members of UMKC Doctoral Faculty

+ Located at UM-St. Louis campus

Economics

#***W. Robert Brazelton**; professor emeritus of economics; B.A. (Dartmouth College); M.A., Ph.D. (University of Oklahoma).

#***Willaim 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**  ; associate 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**  ; assistant 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 Kanas 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

+ Located at UM-St. Louis campus

English Language and Literature

#* **Hadara Bar-Nadav** ; assistant professor of English; B.A. (William Paterson College); M.A. (Montclair State University); Ph.D. (University of Nebraska-Lincoln).

#* **John C. Barton** ; assistant 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** ; assistant 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).

#* **Joan F. Dean** ; curators' teaching professor of English; A.B. (Canisius College); M.A., Ph.D. (Purdue University).

#* **Stephen Dilks** ; associate professor of English; B.A. (University of Stirling, Scotland); M.A., Ph.D. (Rutgers University).

Laurie Ellinghausen ; assistant 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).

Maira 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).

#* **Christie Hodgen** ; assistant 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).

Patricia Huyett ; lecturer in English; B.A., M.A. (University of Missouri-Kansas City).

Daniel Freeman Jaffe; professor emeritus of English; B.A. (Rutgers University); M.A. (University of Michigan).

Katie Kline  ; lecturer in English; .

#*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).

#*Jennifer Phegley  ; associate 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).

#*Jeffrey A. Rydberg-Cox  ; chair, department of English language and literature, and associate professor of English and classics; B.A. (Colorado College); M.A., Ph.D. (University of Chicago).

#*Anthony Shiu  ; assistant 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).

#*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).

Foreign Languages and Literature

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Foreign Languages and Literatures

#*K. Scott Baker ; assistant professor of foreign languages; B.A. (University of Oregon); M.A., Ph.D. (University of Washington).

#*Patricia P. Brodsky; professor emeritus of foreign languages; B.A. (University of Iowa); M.A., Ph.D. (University of California, Berkeley).

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 emeritus of foreign languages; M.A., Dr.Phil. (University of Munich).

Nacer Khelouz ; visiting assistant professor of foreign languages; Licence, Maitrise (Université de Paris VIII); Ph.D. (University of Pittsburgh).

#*Kathy M. Krause ; associate professor of foreign languages; B.A. (Dartmouth College); M.A., Ph.D. (University of Pennsylvania).

#*Rebecca L. Lee ; assistant professor of foreign languages; B.A. (Wellesley College); M.A., Ph.D. (Cornell University).

#*Gayle A. Levy ; associate professor of foreign languages; A.B. (University of California-Berkeley); M.A. (Johns Hopkins University); Ph.D. (Duke University).

Rose Marie Marfurt; assistant professor emeritus of foreign languages; Licence ès Lettres, Agrégation des Lettres (University of Lausanne, Switzerland).

Larson Powell ; assistant professor of foreign languages; B.A. (Harvard University); M.A., M.Phil., Ph.D. (Columbia University).

Alice Ruth Reckley Vallejos ; chair, department of foreign languages and literatures, and 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

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Geosciences

#* Jimmy O. Adegoke ; chair of department of geosciences; 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 ; assistant professor of geosciences; B.S., M.S. (Seoul National University); Ph.D. (Northwestern University).

#* Deborah J. O'Bannon ; associate professor of computing and engineering and adjunct professor of geosciences; B.S.C.E. (Massachusetts Institute of Technology); C.E. (Manhattan College); Ph.D. (University of Iowa); P.E.

James B. Murowchick ; 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).

#* Jerry R. Richardson ; associate professor of computing and engineering and adjunct professor of geosciences; B.S., M.S., Ph.D. (Colorado State University); P.E.

Julie L. Urbanik; visiting assistant professor of geosciences; B.A. (Randolph-Macon College), M.A. (University of Arizona), Ph.D. (Clark University).

History

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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  ; assistant professor of history; B.A. (Dartmouth College); M.A., Ph.D. (Emory University).

Jesse V. Clardy  ; professor emeritus of history; B.S., M.S. (Texas College of Arts and Industries); Ph.D. (University of Michigan).

#*Gary L. Ebersole  ; professor of history and director of religious studies; B.A. (Dickinson College); M.A., Ph.D. (University of Chicago).

***James Stephen Falls**  ; associate professor 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).

John T. Graham; professor emeritus of history; A.B. (Rockhurst College); Ph.D. (St. Louis University).

#*Viviana L. Grieco; assistant professor of history; B.A. (Universidad de Buenos Aires); M.A., Ph.D. (Emory University).

Herman M. Hattaway  ; professor emeritus of history; B.A., M.A., Ph.D. (Louisiana State University).

#*John Herron  ; assistant professor of history; B.A., M.A. (Montana State University), Ph.D. (University of New Mexico).

Cynthia Jones  ; adjunct instructor of history; B.A., M.A., Ph.D. (University of Missouri-Kansas City).

#*Carla L. Klausner  ; professor of history and Curator's Teaching Professor; B.A. (Barnard College); M.A. (Radcliffe College); Ph.D. (Harvard University).

#*Lawrence H. Larsen  ; professor emeritus of history; B.S. (Lawrence College); M.S., Ph.D. (University of Wisconsin).

#*Dennis Merrill  ; professor of history; B.A. (Providence College); M.A., Ph.D. (University of Connecticut).

Gary Palmer  ; adjunct instructor of history; B.S. Ed. (Concord University); M.A. (University of Missouri-Kansas City); M. of Divinity (Central Baptist Theological Seminary).

Stanley B. Parsons, Jr.  ; professor emeritus of history; B.S. (University of Missouri-Columbia); M.A. (University of South Dakota); Ph.D. (University of Iowa).

#*Lynda Payne  ; assistant professor of history; M.A. (University of Edinburgh); Ph.D. (University of California, Davis).

#*Patrick A. Peebles  ; professor of history; B.A. (University of California-Berkeley); M.A., Ph.D. (University of Chicago).

***Linna F. Place**  ; Research associate professor/university liaison to the Harry S. Truman Presidential Library; B. A. (Denison University); M.A. (Cooperstown Graduate Programs), Ph.D. (Kansas University).

#*Louis W. Potts  ; chair, department of history, and professor of history; B.A. (Lafayette College); M.A., Ph.D. (Duke University).

Joseph P. Schultz; professor emeritus of history; B.A. (Yeshiva University); M.A. (Jewish Theological Seminary of America); Ph.D. (Brandeis University).

Ted P. Sheldon; director emeritus of libraries and adjunct professor of history; B.A. (Elmhurst College); M.A., Ph. D. (Indiana University); M.S.L.S. (University of Illinois).

@#*Fredrick Spletstoser  ; adjunct instructor of history; Ph.D. (Louisiana State University).

@Frances Sternberg  ; adjunct instructor of history; B.A. (CUNY-Brooklyn College); M.A. (University of Chicago); Ph.D. (University of Missouri-Kansas City).

@Russell Reed Whitaker; director, National Archives - Great Plains and adjunct associate professor of history; B. A. (Washburn University).

@#William S. Worley  ; adjunct instructor of history; Ph.D. (University of Kansas).

#*Shona Kelly Wray  ; associate professor of history; B.A. (University of California at Davis); M. A., Ph.D. (University of Colorado at Boulder).

@#*Mary Ann Wynkoop  ; director of American studies program, assistant professor of history; Ph.D. (University of Indiana).

Mathematics

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Mathematics and Statistics

#*Jie Chen  ; associate professor of statistics; B.S. (Chongqing University, China); M.S. (University of Akron); Ph.D. (Bowling Green State University).

@Richard Delaware  ; associate clinical professor of mathematics; B.S. (Santa Clara University); M.A. (University of Kansas); Ph.D. (University of Missouri - Kansas City).

#*Mark A. Gamalo  ; assistant professor of statistics; B.S. (Ateneo de Manila University); M.S. (University of the Philippines); M.A., Ph.D. (University of Pittsburgh).

#*Eric J. Hall  ; assistant professor of mathematics; B.A. (Carleton College); Ph.D. (University of Michigan).

Boumediene Hamzi  ; assistant professor of mathematics; M.S., Ph.D. (University of Paris-Sud).

#*Kamel Rekab  ; chair, department of mathematics and statistics, and professor of statistics; M.S. (Stanford University); Ph.D. (University of Michigan).

#*Noah H. Rhee  ; associate professor of mathematics; B.S. (Seoul National University, South Korea); Ph.D. (Michigan State University).

Rebecca S. Roberts  ; lecturer in mathematics; B.A., M.A. (University of Denver).

#*Liana Segă  ; assistant professor of mathematics; B.S. (University of Bucharest, Romania); Ph.D. (Purdue University).

#*Hristo D. Voulou  ; assistant professor of mathematics; M.S., Ph.D. (Sofia University, Bulgaria).

#*Xin Yan  ; associate professor of statistics; B.S. (China University of Geosciences); M.S., Ph.D. (University of California at Davis).

#*Yong Zeng  ; associate professor of statistics; B.S. (Fudan University, China); M.S. (University of Georgia); Ph.D. (University of Wisconsin - Madison).

Philosophy

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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.  ; professor of philosophy; B.A. (University of Santa Clara); M.A. (San Francisco State College); Ph.D. (University of California-Davis).

Solomon E. Levy; professor emeritus of philosophy; B.A. (Brooklyn College); Ph.D. (University of Southern California).

Clancy W. Martin  ; assistant professor of philosophy; B.A. (Baylor University); Ph.D. (University of Texas at Austin).

#*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  ; chair, department of philosophy, and associate 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

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Physics

#***Keith M. Ashman** ; assistant professor of physics; B.Sc. (Queen Mary College, London); Ph.D. (School of Mathematical Sciences, Queen Mary College, London).

James R. Beacham; associate professor emeritus of physics; B.S., M.S., Ph.D. (Purdue University).

Paul J. Bryant; professor emeritus of physics; B.S. (Rockhurst College); M.S., Ph.D. (St. Louis University).

Anthony Caruso ; assistant 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 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).

#***Richard D. Murphy** ; professor of physics; B.A. (University of Colorado); M.A., Ph.D. (University of Minnesota).

#***James M. Phillips**; professor emeritus of physics; B.S., B.S.Ed. (Central Missouri State College); Ph.D. (University of Missouri-Rolla).

#***Donald J. Priour, Jr.** ; assistant professor of physics; B.A. (Rice University); Ph.D. (Princeton).

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).

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** ; associate 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).

Political Science

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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

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Psychology

Jared M. Bruce ; assistant professor of psychology; B.A. (University of Maine); M.S., Ph.D. (Pennsylvania State University).

***Carl Calkins** ; professor of psychology; B.A. (State University of New York); M.A. (Southern Connecticut State College); Ph.D. (Vanderbilt University).

#*Delwyn Catley ; associate 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).

#*Terri D. Conley ; assistant professor of psychology; B.A. (University of Wisconsin-Madison); M.A., Ph.D. (University of California, Los Angeles).

#*Diane L. Filion ; chair, department of psychology, and associate professor of psychology; B.A. (Eastern Washington University); M.A., Ph.D. (University of Southern California).

#*Linda S. Garavalia ; associate professor of psychology; B.A. (Clemson University); MA, Ph.D.(University of South Carolina).

Leah K. Gensheimer ; associate professor of psychology; B.S. (University of New Haven); M.A. (Adelphia 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).

#*Joseph B. Hughey ; professor of psychology; B.A., M.A. (Wichita State University); Ph.D. (University of Tennessee).

#*Christopher Lovelace ; assistant professor of psychology; B.A. (Wake Forest University); M.A., Ph.D. (American University).

#*Jennifer Lundgren ; assistant professor of psychology; B.S. (Oklahoma State University); M.A., Ph.D. (University at Albany, State University of New York).

Robert Chris Martin ; professor of psychology; B.A., M.A., Ph.D. (University of Florida).

#*Tamera Burton Murdock ; associate professor of psychology; B.A., M.S. (University of Pennsylvania); Ph.D. (University of Delaware).

#*Joshua Rabinowitz ; assistant professor of psychology; B.A., M.A., Ph.D. (University of California, Los Angeles).

#*Melisa Rempfer ; assistant professor of psychology; B.S. (University of Iowa); M.A., Ph.D. (University of Kansas).

#*Marne L. Sherman ; assistant professor of psychology; B.A. (Carroll College); M.S., Ph.D. (Finch University of Health Sciences/The Chicago Medical School).

#*Lisa Terre ; associate professor of psychology and medicine; B.A. (Rutgers University); M.A. (Roosevelt University); Ph.D. (Auburn University).

Social Work

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Graduate Social Work

Rosalyn M. Bertram ; assistant 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** ; assistant professor 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 ; associate professor of social work; B.Com. (University of Poona, India); MBA (Augusta University); M.S.W., Ph.D. (Florida State University).

#***Lee Rathbone-McCuan** ; interim director, school of social work, and professor of social work; B.A. (University of Kentucky); M.S.W., Ph.D. (University of Pittsburg).

Elaine Spencer-Carver ; interim director of field education and clinical instructor school of social work; B.S. (Stephen F. Austin State University in Nacogdoches, Texas); M.S.W. (University of Kansas); A.B.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

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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).

C. Neil Bull; professor emeritus of sociology; B.A., M.A. (University of British Columbia); Ph.D. (University of Oregon).

Henry G. Burger; professor emeritus of education and anthropology; B.A., M.A., Ph.D. (Columbia University).

Thomas E. Carroll ; associate professor emeritus of sociology; B.A. (Indiana University); M.A., Ph.D. (University of Minnesota).

***Burton Halpert** ; associate professor of sociology and medicine; B.A. (Drake University); M.A. (University

of Manitoba); Ph.D. (University of Minnesota).

#*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).

#*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 of sociology; B.A., M.A. (University of Arizona); Ph.D. (Purdue University).

#*Peter M. Singlemann; professor 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 anthropology and religious studies; B.A. (Benedictine College); M.A. (Boston College); O.S.B. (Order of St. Benedict); Ph.D. (Catholic University of America).

Theatre

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Theatre

***Erika Bailey**; assistant professor of theatre; B.A. (Williams College); M.F.A. (Brandeis University); M.A. (Central School of Speech and Drama).

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** ; assistant professor of theatre.

@**Charles Hayes** ; assistant professor of theatre; B.A. (Augustana College); M.F.A. (University of Iowa).

Gary Holcombe ; assistant professor of theatre; B.A. (Morehead State University); M.M. (Indiana University); D.M.A. (University of Maryland).

Don Hovis ; visiting assistant professor of technical production; B.F.A. (Missouri Southern State College); M.F.A. (University of Missouri-Kansas City).

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.).

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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).

Jacques Burdick; professor emeritus of theatre.

Cal Pritner; professor emeritus of theatre.

Vincent Scassellati; associate professor emeritus of theatre.

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#*Jane M. Carl  ; professor of music (clarinet); B.M., M.M., D.M.A. (University of Michigan).

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#*Anne B. DeLaunay  ; associate professor of music (voice, music/opera literature); B.M., M.M., D.M.A. (Louisiana State University).

#*John A. Ditto  ; associate professor of music (organ); B.M. (Drake University); M.M. (University of Michigan); Performer's Certificate, D.M.A. (Eastman School of Music). (Concert management with Phyllis Stringham, Waukesha, Wisconsin.)

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***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.)

#*Robert Olson  ; professor of music (conducting, orchestra); B.M. (Northern Illinois University); M.M. (Michigan State University); D.M.A. (University of Washington).

#*Michael Pagan  ; assistant professor of music (jazz studies); B.M., M.A, (Kent State University); D.M. (Northwestern University).

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#*Mary Posses  ; associate professor of music (flute); B.A., M.M., M.M.A., D.M.A. (Yale University).

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#*Charles R. Robinson  ; professor of music (music education, choral music); B.M.E., Ph.D. (Florida State University); M.A. (California State University, Long Beach).

#*Paul Rudy  ; area coordinator and 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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***Rebecca Sherburn -Bly**; associate professor of music (voice); B.M. (California State University, Los Angeles); M.M. (University of Southern California); D.M.A. (University of Southern California).

***Reynold Simpson**; associate professor of music (music theory); B.M. (The Peabody Conservatory of The Johns Hopkins University); M.F.A. (Princeton University); M.M., D.M.A. (The Juilliard School).

***James Snell**; assistant dean for performance/production operations and assistant professor of music (percussion); B.M. (University of Illinois); M.M. (Southern Methodist University); D.M.A. (University of Missouri-Kansas City).

***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.)

Sue Stubbs; adjunct assistant professor of music (double bass); B.M. (Juilliard School); M.M. (University of Missouri).

Kent Swafford; teaching assistant (piano technician); (University of Kansas); (Registered piano technician).

***Timothy Timmons**; associate dean of undergraduate studies and associate professor of music (saxophone); B.M. (University of Tulsa); M.M. (Northwestern University).

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***Olga Ackerly**; associate professor of music (musicology); B.M., M.M. (Manhattan School of Music); M.A., M.Ph., Ph.D. (University of Kansas).

***Robert Watson**; William and Mary Grant/Missouri Endowed Professor in Jazz Studies; B.M. (University of Miami).

Paula B. Weber; chair of dance and professor of dance (ballet); B.A. (Butler University); M.F.A. (Smith College).

***Robert Weirich**; Jack Strandberg/Missouri Endowed Chair in Piano, chair of keyboard studies, and associate dean for strategic planning; B.M. (Oberlin Conservatory of Music); D.M.A. (Yale University).

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School of Nursing

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Members of UMKC Doctoral Faculty

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).

Teresa W. Blanc ; clinical instructor of nursing; B.S.N. (Missouri Western State University); M.S.N. (University of Kansas).

#*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).

Joyce E. Clement ; clinical instructor of nursing; B.S.N. (University of Massachusetts); M.S.N. (University of Missouri-Kansas City).

#*Maithe Enriquez ; Ph.D. program director and assistant professor of nursing; B.S.N. (Webster University); M.S. N., Ph.D. (University of Missouri-Kansas City).

Martha Goodwin ; clinical instructor of nursing; B.S.N. (University of Kansas); M.S.N. (University of Colorado).

Judy Willis Hileman ; clinical assistant professor of nursing; B.S.N., M.N., Ph.D. (University of Kansas).

#*Tina Hines ; Dorothy and Dale Thompson/Missouri Endowed Professor in Nursing; B.A. (George Washington University); B.S.N. (Spalding University); Ph.D. (University of Louisville).

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 ; 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. program director and clinical instructor of nursing; B.S.W. (University of Nebraska); B.S. N., M.S.N., D.N.P. (University of Missouri-Kansas City).

JoAnn G. Klaassen ; clinical instructor of nursing; B.A. (Tabor College); B.S.N., M.N. (Wichita State University); J. D. (University of Missouri-Kansas City).

Carolyn King-White ; clinical instructor of nursing; B.S.N. (Webster University); M.S.N. (University of Missouri-Kansas City).

Steve Krantz ; associate professor of nursing/education; B.A., M.S. (University of Utah); Ph.D. (Utah State University).

Karl L. Kroen ; clinical instructor of nursing; B.S. (Truman State University); B.S.N. (University of Kansas); M.H.S. A. (Central Michigan University); M.S.N. (University of Kansas).

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).

Kristin C. Lee  ; clinical assistant professor of nursing; B.S.N. (Purdue University); M.S.N. (University of Missouri-Kansas City).

Lyla Lindholm  ; clinical instructor of nursing; B.S.N. (Washburn University); M.N. (University of Kansas); D.N.P. (University of Missouri-Kansas City).

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Daphne A. Reavey; clinical instructor of nursing; B.S.N. (University of Kansas); M.S.N., Ph.D. (University of Missouri-Kansas City).

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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).

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School of Pharmacy

@ Associate or Adjunct Graduate Faculty

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Members of UMKC Doctoral Faculty

+ Located at UM-St. Louis campus

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***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 dean, school of pharmacy, and associate professor of pharmacy practice; B.S. (Medical College of South Carolina); M.S., Ph.D. (University of Mississippi).

Patrick J. Bryant ; clinical associate professor of pharmacy practice and director, UMKC Drug Information Center; Pharm.D. (University of Nebraska Medical Center).

Frank Caligiuri ; clinical assistant professor of pharmacy practice; 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).

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; B.S. (University of Nebraska); Ph.D. (University of Minnesota).

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Brooke Y. Patterson ; clinical assistant professor of pharmacy practice; Pharm.D. (Purdue University).

D. Keith Perkins; clinical associate professor of pharmacy practice; B.S. (University of Missouri-Kansas City); Pharm.D. (University of Utah).

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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; Pharm.D. (University of Iowa).

Stephanie Schauner; clinical assistant professor of pharmacy practice; Pharm.D. (University of Missouri-Kansas City).

Andrew Smith; clinical assistant professor of pharmacy practice; Pharm.D. (University of Missouri-Kansas City).

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Roger W. Sommi, Jr. ; professor of pharmacy practice; B.S. (University of Wisconsin-Madison); Pharm.D. (University of Utah).

Morgan Sperry; clinical assistant professor of pharmacy practice; Pharm.D. (Creighton University).

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Deepti Vyas ; clinical assistant professor of pharmacy practice; Pharm.D. (Purdue University).

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Elizabeth Winans ; clinical associate professor of pharmacy practice; B.S. (Kansas State University); B.S., Pharm.D. (University of Oklahoma College of Pharmacy).

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Criminal Justice and Criminology

@ Associate or Adjunct Graduate Faculty

* Members of UMKC Graduate Faculty

Members of UMKC Doctoral Faculty

+ Located at UM-St. Louis campus

Criminal Justice and Criminology

*** Cathleen Burnett** ; associate professor of sociology/CJC; B.A. (St. Lawrence University); M.S., Ph.D. (Vanderbilt University).

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**; 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).

Appendices

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 Business and Public Administration,

[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/psyc

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**, driever@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/eoaa

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 Street Residence Hall](#), 5030 Cherry Street, 816-235-**8956**, housing@umkc.edu, www.umkc.edu/housing

Housing, Cherry Street Residence Hall Administrative Office,

[Cherry Street Residence 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**, womens-center@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

[University Center](#), Mid-level

5000 Rockhill Road

(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

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 advisor or counselor before and/or during the hearing: however, the advisor/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 advisor or counselor appear with the PAL and to consult with such an advisor or counselor before or during the hearing; however, the advisor/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 t 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, or 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 AID 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 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 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 200.010 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. 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

b>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

Approved by the University of Missouri Board of Curators: December 1994

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:

- o 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;
- o 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
- o 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* on 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:

- o **No Disciplinary Action.** Given when the student is not found in violation of the Standards of Professional Conduct.
- o **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.
- o **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.
- o **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.
- o **Dismissal.** An involuntary separation from the 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.
- o **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 regulations(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 counselor 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 O 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 with out 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.

[1] ANA (2003). Nursing's Social Policy Statement.

[2] ANA (2003). Nursing's Social Policy Statement.

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 11, 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 re-sign, 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

Policies and Procedures

- Student Conduct
- Rules of Procedures in Student Conduct Matters
- Attendance Policy
- Acceptable Use Policy
- Policy on Student Records
- Procedure for Appeal of Grades
- Academic Amnesty Policy
- Academic Amnesty Procedures
- Equal Opportunity Procedures
 - Guidelines on Sex Discrimination
 - Guidelines on Discrimination on the Basis of Religion or National Origin
 - Guidelines on Sexual Harassment
 - Minimum Standards of Progress for Veterans
 - Discrimination Grievance Procedure for Students
- Policy on Positive Work and Learning Environment

Student Conduct

This policy is also available at <http://www.umsystem.edu/ums/departments/gc/rules/programs/200/010.shtml>.

A student enrolling in the University assumes an obligation to behave in a manner compatible with the University's function as an educational institution.

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 or other conduct which threatens or endangers the health or safety of any person.
5. 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.
6. Unauthorized possession, duplication or use of keys to any University facilities or unauthorized entry to or use of University facilities.
7. 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.
8. 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.

9. Disruptive or disorderly conduct or lewd, indecent, or obscene conduct or expression.
10. Failure to comply with directions of University officials acting in the performance of their duties.
11. The illegal or unauthorized possession or use of firearms, explosives, other weapons, or hazardous chemicals.
12. 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.

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.)

This policy is also available at www.umsystem.edu/ums/departments/gc/rules/programs/200/020.shtml.

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 Disposition.** 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 4.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 is 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) or the student 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 within such time. The Petition for Review shall state the grounds or reasons for review, and the nonappealing party 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 student is expelled, dismissed, or suspended from the University by the Committee, the Primary Administrative Officer/Designee(s), or the student may appeal such decision to the Chancellor or Designee by filing written notice of appeal 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 student to the Primary Administrative Officer/Designee(s) or by the Primary Administrative Officer/Designee(s) to the student. 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.

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 may make a statement to the Committee about the charge at this time or at the conclusion of the University's presentation.

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 or, with permission of the Committee, the adviser or counselor may question witnesses or examine evidence at the conclusion of the University's presentation.

c.

Student Evidence.

(1)

If the student 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.

d.

Rebuttal Evidence. The Committee may permit the University or the student to offer a rebuttal of the other's presentation.

e.

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. **Student's Rights Upon Hearing.** 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. Have students from the Student Panel sit with the Committee or Hearing Panel;
 - d. Hear or examine evidence presented to the Committee;
 - e. Question witnesses present and testifying;
 - f. Present evidence by witnesses or affidavit;
 - g. Make any statement to the Committee in mitigation or explanation of the conduct in question;
 - h. Be informed in writing of the findings of the Committee and any sanctions it imposes; and
 - i. Request review or appeal to the Chancellor as herein provided.
3. **Determination by Student Conduct Committee.** The Committee shall then make its findings and determinations 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 reasonably convinced by 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.** A taped 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.
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.

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.

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.

Acceptable Use Policy

(110.005 Acceptable Use Policy; Bd. Min. 9-14-00.)

This policy is also available at <http://www.umssystem.edu/ums/departments/gc/rules/facilities/110/005.shtml>.

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
3. 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.

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/departments/gc/rules/information/180/020.shtml>.

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.

1. **"Act"** means the Family Educational Rights and Privacy Act of 1974, as amended, enacted as Section 444 of the General Education Provisions Act.
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;
 - (2) 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;
 - (3)
 - (i) 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.
- (ii) 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.
- (4) 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.

- b. The procedure for exercising the right to inspect and review education records;
 - c. The procedure for requesting amendment of records under Section 180.020 I; and
 - d. 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
 - c. 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.
 - (iii) This section applies only to disciplinary proceedings in which the final results were reached on or after October 7, 1998.
- o. 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.

- e. Criminal homicide - manslaughter by negligence;
 - f. Criminal homicide - murder and nonnegligent manslaughter;
 - g. Destruction/damage/vandalism of property;
 - h. Kidnapping/abduction;
 - i. 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.

Procedure for 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 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 chancellor or designated representative. This appeal must be made within 10 consecutive calendar days after notification of the decision of the dean.
5. The chancellor or designated representative shall review the full record of the case and appeal documents. At this level, the chancellor may appoint an ad hoc academic appeals committee to review the record and provide advice on the matter.
The decision of the chancellor, or designated representative, is final and will be communicated to the student, the instructor, the department and the dean of the school or College.

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

1. 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.
2. Amnesty applications are acted upon by a standing faculty committee to be appointed by the Provost's Office.
3. Notification of committee decisions will be made in writing to the student and the appropriate Academic Deans by the UMKC Records Office.

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 <http://www.umsystem.edu/ums/departments/gc/rules/personnel/330/060.shtml>.

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.

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/departments/gc/rules/grievance/390/010.shtml>.

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

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/departments/gc/rules/personnel/330/080.shtml>.

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.

Undergraduate Courses

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College of Arts & Sciences

College of Arts & Sciences American Studies

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.

3 hrs

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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.

3 hrs

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AMER-ST 300 CD 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

3 hrs

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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.

4 hrs

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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.

4 hrs

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AMER-ST 303 W1 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.

4 hrs

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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.

3 hrs

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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

4 hrs

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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

4 hrs

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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.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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AMER-ST 400 A Special Studies

1-3 hrs

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AMER-ST 400 B Special Studies

1-3 hrs

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AMER-ST 400 CW Cc: Introduction To Women's 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.

3 hrs

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AMER-ST 400 J Special Studies**1-3 hrs**[back to top](#)**AMER-ST 400 L Special Studies****1-3 hrs**[back to top](#)**AMER-ST 400 M Special Topics****1-3 hrs**[back to top](#)**AMER-ST 400 P Special Studies****1-3 hrs**[back to top](#)**AMER-ST 400 S 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.

1-3 hrs[back to top](#)**AMER-ST 400 W Special Studies****1-3 hrs**[back to top](#)**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.

1-6 hrs[back to top](#)**AMER-ST 440 W1 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

3 hrs[back to top](#)**AMER-ST H400 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.

1-3 hrs[back to top](#)

Anthropology

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.

3 hrs

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ANTHRO 202 R 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.

3 hrs

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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

3 hrs

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ANTHRO 207 The Culture 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.

3 hrs

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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.

3 hrs

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ANTHRO 300 CL Cluster Course: Introduction To Women'S Studies

3 hrs

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ANTHRO 300 R 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.

1-3 hrs

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ANTHRO 300 Special Topics In Anthropology

1-3 hrs

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ANTHRO 300 RF Special Topics In Anthropology

1-3 hrs

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ANTHRO 300 RV Special Topics In Anthropology

1-3 hrs

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ANTHRO 300 Special Topics in Anthropology

1-3 hrs

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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. Offered: Fall

3 hrs

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ANTHRO 303 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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ANTHRO 325 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.

1 hr

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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.

1 hr

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ANTHRO 328 Anthropology Of The Body

The Anthropology of the Body is an interdisciplinary and comparative approach to the study of the body as the subject and object of social processes. Anthropological approaches to ritual, performance, reproduction, and healing 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

3 hrs

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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

1 hr

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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. Also offered as SOCIOL 331.

3 hrs

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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

1 hr

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ANTHRO 341 R 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. Offered: Annually.

3 hrs

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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.

3 hrs

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ANTHRO 346 Cultures Of The African Diaspora

This course will explore the cultures of African people and their descendants 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.

3 hrs

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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.

1 hr

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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.

3 hrs

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ANTHRO 352 Multicultural Women's Histories In The U.S.

This course offers an introduction to the histories of women in the U.S. from the 17th to the beginning of the 20th century. We will study colonial and US women of Native, Latino, European, African, and Asian descent, their contact with women (and men) of other ethnic groups, the political, economic, and legal changes affecting their lives, and the images they created of themselves and each other. Offered: Every Fall Semester

1 hr

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ANTHRO 353 Women, Class, And Ethnicity In The U.S.

This course focuses on contemporary women's lives and issues such as welfare and immigration, stereotypical imagery, and the pressure to put ethnic and/or class interests before gender concerns. We will study women of Native, African, European, Latin, Asian, and heterogeneous descent and the ethnic, economic, and legal forces shaping their lives. Offered: Every Fall

1 hr

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ANTHRO 354 Women's Lives In The Global Economy

This course explores the realities of women's lives and the work that women contribute to all societies. Using an anthropological approach, we will explore women's productive work in gathering, horticulture, agriculture, and industrialization, women's reproductive work, as well as their work of status enhancement and caring. Highlighting the changes wrought by colonialism, we will also explore women's work, both voluntary and involuntary, in the global economy. Offered: Every Winter

1 hr

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ANTHRO 355 The United Nations' Womens Conferences

This class studies the United Nations' Women's Conferences in Mexico City (1975), Copenhagen (1980), Nairobi (1985), Beijing (1995), and Beijing +5 (2000), their themes, participants, documents, solutions, and consequences. Special attention will be paid to women's human rights. Offered: Every Winter

1 hr

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ANTHRO 356 Cross-Cultural Gender Conceptions

This class surveys the varieties of gender definitions and roles in historical and contemporary human cultures in their association to stratified or equitable access to economic, political, and ideological resources. Topics include the definitions and varieties of human sexes and of human genders, and the multiple ways in which people create sexual and gender intersections and variations. Offered: Every Winter

1 hr

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ANTHRO 373 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.

3 hrs

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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 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 a privileged window for exploring the articulation of cultural, economic and political relations within the context of contemporary global society.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 receive 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.

3 hrs

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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

3 hrs

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ANTHRO 441 Developing Countries

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.

3 hrs

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ANTHRO H300 Special Topics In Anthropology

1-3 hrs

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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.

5 hrs

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ARABIC 120 Elementary Arabic II

Continuation of ARABIC 110. Winter. Prerequisite(s): ARABIC 110 or equivalent.

5 hrs

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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.

3 hrs

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ARABIC 221 Second Year Arabic II

Continuation of ARABIC 211. Winter.

3 hrs

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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.

2-4 hrs

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ARABIC 290 Special Intermediate Arabic Topics II

Continuation of ARABIC 280. May not be repeated for credit. As needed.

2-4 hrs

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Architectural Studies

ENV-DSN 110 The Meaning Of Architecture

Architecture is a visual and physical expression of civilization. Significant architecture embodies the inspired use of spaces and forms in such a way as to enrich the lives of humanity. 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.

3 hrs

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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.

4 hrs

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ENV-DSN 202 Environmental Design Studio II

Continuation of ENV-DSN 201. Prerequisites: ENV-DSN 201 and permission of department. Offered: Winter semester.

4 hrs

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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. One lecture per week for 8 weeks. Offered: Fall

1 hr

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ENV-DSN 248 Building Science

Instruction in the materials of building and landscape design; sources, characteristics and uses in design and construction: emphasis on evaluation and selection. Two lectures and one recitation per week. Offered: Fall semester.

3 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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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.

5 hrs

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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.

5 hrs

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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.

3 hrs

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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.

4 hrs

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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.

3 hrs

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Art and Art History (ART-HIST)

ART-HIST 300 CJ 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. Winter.

3 hrs

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ART-HIST 403 Advanced Typography

A continuation of ART 203, Introduction to Typography, this course looks at more sophisticated typographic use, using advanced layout and design principles, based on both historical and contemporary typographic design practice. In addition, typographic design theory will be studied as a basis for practice and experimentation. The influence of the computer in contemporary typographic design will be studied through lecture and practice. Typography in motion-and time-based media such as websites and multimedia presentations will be examined in how these forms of typography differ from 2-dimensional type usage.

3 hrs

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ART-HIST 436 P 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 field of graphic design will be discussed. Restrictions: Does not count towards Studio Art major requirements

4 hrs

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ART-HIST 437 P Introduction to Digital Imaging and Computer Multimedia

Students will acquire a basic understanding of lens-based image creation using still and video camera. 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.

4 hrs

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ART-HIST 438 P 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 major requirements. Concurrent enrollment in ART436P or ART 437P is required.

4 hrs

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ART-HIST 497 Special Studies in Art History: Internship

Advanced art history students gain invaluable practical experience in a professional setting in the field of art.

1-6 hrs

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ART-HIST 497 Q 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

1-6 hrs

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ART-HIST 498 Special Studies in Art: Internship

Advanced students gain invaluable practical experience in a professional setting in the field of art. Prerequisite: Permission of the department.

1-6 hrs

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Art History

ART 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.

1-3 hrs

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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.

1-3 hrs

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ART 101 B Topical Studies In Studio Art

1-3 hrs

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ART 101 G Topical Studies In Studio Art

1-3 hrs

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ART 105 Introduction To Photography

An introduction to the general practice of photography. This course is intended for non-majors. It does not serve as a prerequisite for advanced art photography courses. The course centers on the basic technical and aesthetic aspects of the medium. A fully adjustable 35mm camera is required. Offered: Every semester

3 hrs

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ART 110 Introduction To The Visual Arts

An introduction to the study of art--especially architecture, sculpture, painting and the graphic arts. Consideration given to purpose and patronage, the visual elements, design and techniques. The meaning of style and expression is studied in the context of the historical background of chief periods of Western civilization. This course meets the college fine arts requirement, but does not count towards the art history requirement for departmental majors. Every semester.

3 hrs

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ART 112 Foundation Drawing

Drawing on the introductory level. Every semester.

3 hrs

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ART 114 Introduction To Computer Multimedia

General techniques and practical application for computer multimedia. This is a course intended for non-majors. It does not serve as a prerequisite for advanced art multimedia courses. Lectures, demonstrations, readings, discussions and application sessions. Fulfills the College of Arts and Sciences computer competency requirement. Offered: Fall and Winter.

3 hrs

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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. Offered: Summer.

3 hrs

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ART 121 Foundation Design--Two Dimensional

The principles of visual thinking with emphasis on color theory and perception of form and space. Prerequisite: ART 112; concurrent enrollment with ART 112 is with approval. Every semester.

3 hrs

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ART 131 Foundation Design--Three Dimensional

Introductory study in three-dimensional formal principles with emphasis on the aesthetic properties. Prerequisite: ART 112. Every semester.

3 hrs

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ART 203 Introduction To Typography

The format 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 112, ART 121, and ART 131.

3 hrs

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ART 204 Computer Multimedia I

Introductory level computer multimedia. This course is intended for studio majors. General techniques and practical application of animation, imaging, video, text and sound to multimedia. Lectures, demonstrations, readings, discussions and application sessions. Prerequisite: Studio major or permission of instructor. Offered: Fall and Winter.

3 hrs

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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. Extensive darkroom work will be required. A fully adjustable 35mm camera is required. Prerequisites: Studio major or permission of instructor. Offered: Every semester.

3 hrs

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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 Offered: Every Semester

3 hrs

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ART 221 Introductory Painting

Exploration of the visual language in paint. Emphasis on continuing color and design exploration. Prerequisites: ART 112, ART 121, ART 212. Every semester.

3 hrs

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ART 224 Introductory Printmaking

An introduction to the process and technique of printmaking centering on metalplate printing. Prerequisites: ART 212,ART 221. Annually.

3 hrs

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ART 231 Introductory Sculpture

Introductory study of sculptural expression and technique in a variety of materials and processes. Prerequisite: ART 131. Every semester.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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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.)

Offered: Fall

3 hrs

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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).

Offered: Fall

3 hrs

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ART 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.

3 hrs

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ART 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.

3 hrs

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ART 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.

3 hrs

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ART 300 Interdisciplinary Studies:Cluster Course Offerings I

3 hrs

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ART 300 CA 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) Stranger manifestations: freaks and beasts D) The humors E) Disorders of the human body F) The body politic G) The human body as an object of study. On demand.

3 hrs

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ART 300 CD 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.

3 hrs

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ART 300 CF Cluster Course: African/African American Women And Creativity

3 hrs

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ART 300 CH Cluster Course: Healing And The Arts

3 hrs

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ART 300 CM Cluster Course: Body Images In Medicine And The Arts

3 hrs

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ART 300 CS Cc: Sight And Sound--An Examination Of Perceptual Experience

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. Offered Fall/Winter.

3 hrs

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ART 300 CW Cc: Women In A Man's World: Gender, Sex & Status In Clsscl Antq

3 hrs

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ART 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. Every semester.

3 hrs

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ART 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. Every semester.

3 hrs

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ART 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. Every semester.

3 hrs

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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. Prerequisite: ART 206. Every semester.

3 hrs

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ART 308 Lithography

Study of stone lithographic process. Prerequisite: ART 224. Winter.

3 hrs

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ART 309 Intaglio

Advanced study of intaglio printing processes. Prerequisite: ART 224. Annually.

3 hrs

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ART 310 Computer Multimedia II

Continuation of ART 204, Intermediate level computer multimedia. This course is intended for studio majors. General techniques and practical application sessions. Prerequisites: ART 204 and specific permission of instructor. Offered: Fall and Winter.

3 hrs

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ART 311 Painting I

Painting in oil or acrylic on the intermediate level. Emphasis on continuing color and design exploration. Prerequisite: ART 212, ART 221. Every semester.

3 hrs

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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. Annually.

3 hrs

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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 203, ART 206, ART 212, ART 224 or permission of the instructor.

3 hrs

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ART 314 Graphic Design Production

Study of the Mechanical procedures and techniques used for the realization of graphic design production. Prerequisite: Instructor's permission. Winter.*

3 hrs

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ART 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.

3 hrs

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ART 319 Asian Art

The survey will emphasize the philosophical and cultural context of the arts of India, Southeast Asia, China, Korea and Japan. 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. Each Fall.

3 hrs

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ART 322 Advanced Drawing

Further development of technique and content. Emphasis is on forming and clarifying a personal voice. Prerequisite: ART 212
Offered: Annually

3 hrs

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ART 335 A 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: Digital Imaging I or permission of instructor.

3 hrs

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ART 353 The Design And Form Of Kansas City

An overview of the historical development of Kansas City with a particular emphasis on the architecture, and the factors influencing what was built, when and where. Prerequisite: Junior standing and a previous course in the history of art or architecture, or permission of the instructor. May not be taken for graduate credit. Offered: Fall

3 hrs

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ART 403 Advanced Typography

A continuation of ART 203, Introduction to Typography, this course looks at more sophisticated typographic use, using advanced layout and design principles, based on both historical and contemporary typographic design practice. In addition, typographic design theory will be studied as a basis for practice and experimentation. The influence of the computer in contemporary typographic design will be studied through lecture and practice. Typography in motion-and time-based media such as web-sites and multimedia presentations will be examined in how these forms of typography differ from 2-dimensional type usage. Prerequisite: ART 413 Offered: On demand

3 hrs

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ART 404 Computer Multimedia III

Continuation of ART 310. Advanced level computer multimedia. This course is intended for studio majors. Lectures, demonstrations, readings, discussions and application sessions. Prerequisites: ART 310 and specific permission of instructor. Offered: Fall and Winter.

3 hrs

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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. Winter semester only.

3 hrs

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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.

3 hrs

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ART 411 Painting II: Oil/Acrylic

Painting on the advanced level with individual selection of medium and technique. Prerequisite: ART 311. Every semester.

3 hrs

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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. Annually.

3 hrs

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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.

3 hrs

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ART 415 WI 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 303 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

3 hrs

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ART 416 WI 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 303 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Fall, odd years.

3 hrs

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ART 421 Painting III: Oil/Acrylic

Continuation of ART 411. Prerequisite: ART 411. Every semester.

3 hrs

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ART 422 Advanced Drawing II

Continuation of ART 322. Prerequisite: ART 312 or 322. Annually.

3 hrs

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ART 423 WI Design Seminar

Critical issues in design, design theory and design history/personalities (specific individuals and movements critical to contemporary design practice) from selected readings, slide presentations and invited speakers. A research paper/presentation on a topic evolving from the topics discussed will be required. The course will also address resume and portfolio preparation for design majors. Prerequisites: ART 313, ART 413 or instructor's permission Offered: On Demand

3 hrs

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ART 424 Early 20Th Century European Painting And Sculpture

A study of European painting and sculpture from c. 1900 to c. 1940. Prerequisite: ART 303 or permission of instructor. Winter, odd years.

3 hrs

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ART 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 303 or permission of instructor. Offered: On demand.

3 hrs

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ART 427 Twentieth Century Sculpture

A study of major artists and stylistic changes in sculpture, beginning c. 1905. Consideration also given to the role of new materials and techniques. Prerequisite: ART 318. On demand.*

3 hrs

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ART 428 American Architecture And Urbanism

A survey of architecture and urbanism in the United States. We begin in the early years of the republic, but focus on the period from the Civil War to the present. Topics include the planning and development of major American cities, the creation of the skyscraper as a new commercial type, the evolution and design of the suburb, the emergence of the United States as the center of modernism following World War II and its displacement from that center with the pluralistic trends of the last three decades. Prerequisites: ART 254, ART 303 or instructor's permission. Offered: Fall.

3 hrs

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ART 429 WI 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 303 or permission of the instructor and successful completion of the WEPT (effective FS93). Offered: Fall, even years.

3 hrs

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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 413 which may be taken concurrently. Offered: WS96

3 hrs

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ART 436 P 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 field of graphic design will be discussed. Restrictions: Does not count towards Studio Art major requirements

4 hrs

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ART 437 P 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

4 hrs

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ART 438 P 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 436P or ART 437P is required

4 hrs

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ART 440 WI 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 302 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

3 hrs

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ART 441 WI 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 302 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

3 hrs

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ART 442 Art Of Sub-Saharan Africa

This course presents an in-depth study of African Art from the sub-Sahara Region. The first half of the course will explore the major art-producing archaeological cultures of Mali, Nigeria, Chad, and Zimbabwe. The second half will concentrate on the ethnographic present and focuses on the major art-producing cultures of West, Central and Southern Africa. Prerequisite: ART 315 or instructor's permission. Offered: On demand.

3 hrs

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ART 443 Pre-Columbian Art

The course will discuss 2500 years of the arts of ancient Mexico, Guatemala and Peru. Included is the rise of such important cultures as the Olmec, Maya, Aztec and Inca. Equal emphasis will be placed on the development of elaborate ceremonial centers such as Monte Alban and the Teotihuacan as well as the ceramic tradition of the West and East coasts of Mexico and the ceramic textile traditions of pre-Columbian Peru. Prerequisite: ART 315 or permission of instructor. Offered: On demand.

3 hrs

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ART 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 Sluter, 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 302 or permission of instructor. Offered: On demand.

3 hrs

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ART 447 WI 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 Barocchetto era. Prerequisite: ART 302 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

3 hrs

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ART 448 WI Spanish Art: El Greco To Goya

A history of Spanish art from the later fifteenth century to the Napoleonic invasion. Prerequisite: ART 302 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

3 hrs

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ART 449 Art And Architecture In The Age Of Enlightenment

Painting, sculpture and architecture in France, Italy, England, Spain and Central Europe during the 18th-century. Prerequisite: ART 302 or permission of instructor.

3 hrs

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ART 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 110 or ART 302 or permission of instructor.

3 hrs

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ART 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: ART110 or ART 301 or permission.

3 hrs

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ART 453 Roman Art And Architecture

The subjects to be included are: wall painting, portraiture, sarcophagi, historical reliefs, and secular and religious architecture. Emphasis will be placed on material from the Late Republic to The Severan period. Prerequisite: ART 301 or permission of instructor.

3 hrs

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ART 454 16Th Century Italian Art And Architecture

The visual arts in Italy from the beginnings of the High Renaissance in the late 15th century through the Late Renaissance and the developing phenomenon of Mannerism. The effect of religious, political and economic developments will be discussed as well as problems of patronage, artistic theory and the role of art in humanist circles. Prerequisite: ART 110 or ART 302 or permission of instructor.

3 hrs

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ART 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 303 or permission of instructor. Offered: On demand.

3 hrs

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ART 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.

3 hrs

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ART 457 The Painting And Sculpture Of Japan

Clay sculptures from 3,000 B.C., the haniwa sculptures from the fourth century A.D., and Buddhist sculpture from the sixth through the 14th centuries as well as the rich tradition of portrait sculptures will be the focus of the first half of the course. The study of paintings will begin with mural paintings preserved in tombs from the fourth century A.D. Murals in Buddhist temples; painted screen and sliding panels from temple buildings, castles and palaces; Zen painting; paintings and prints of the floating world from the 17th through the 19th centuries will be included. The rich resources in the Nelson-Atkins Museum will receive special attention.

3 hrs

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ART 458 Ceramic Art Of China And Japan

A study of the development of pottery and porcelain arts from the prehistoric pottery of China and Japan to the polychrome glazed porcelains of the 18th century in both countries. Ceramic models and figural sculpture as well as ceramic architectural ornamentation will be included. The Nelson-Atkins Museum collection will be used extensively.

3 hrs

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ART 459 Architecture And Gardens Of China And Japan

Among the topics that will be considered in this course are the development of the pagoda and other temple architecture (Buddhist, Confucian, Taoist and Shinto). Palace and domestic architecture of both countries and the castle architecture of Japan as well as the literati and Zen gardens unique to China and Japan will all be included. Prerequisite: ART 319 or permission of instructor.

3 hrs

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ART 460 Oceanic Arts

The arts of Polynesia, Micronesia and Melanesia express a concept of the world that came to an end for most cultures in the Pacific in the 19th century, certainly by the early 20th century. Spectacular in form and complex in meaning, they range from art forms associated with centralized leadership to those associated with men's societies, esoteric knowledge and status enhancement. Emphasis will be placed on the stylistic relationships between island groupings and the contexts in which the varying arts are employed. Prerequisite: ART 315 or permission of instructor.

3 hrs

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ART 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. Offered: Winter.

3 hrs

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ART 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. Annually.*

3 hrs

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ART 482 Scope & Methods Of Art History

A history of the discipline, bibliography, procedures and methods, sources, and cataloging of illustrative materials, and similar topics essential to majors in art history. Prerequisites: Senior standing and permission of instructor. Every Winter.

3 hrs

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ART 485 Technical Colloquium

An advanced study of technical matters pertinent to the production and study of art. Demonstration projects required. Prerequisite: Permission of department. Offered: Every Fall.

3 hrs

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ART 486 Special Topics In Art Education

With permission of the department, an advanced student already certified to teach art may pursue special studies in art education on a seminar or tutorial basis. Every semester.

2-4 hrs

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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. Every semester.

2-4 hrs

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ART 495 A Technical Studies In Art: Papermaking

2-4 hrs

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ART 497 A 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. Every semester.

1-6 hrs

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ART 497 B 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. Every semester.

1-6 hrs

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ART 497 C 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. Every semester.

1-6 hrs

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ART 497 D 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. Every semester.

1-6 hrs

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ART 497 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. Every semester.

1-6 hrs

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ART 497 F 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 319 or permission of instructor. Offered: Every semester.

1-6 hrs

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ART 497 H Sp St In The Art Of African, Oceanic, And New World Cultures

With permission of the department, an advanced student may pursue a selected subject on a seminar or tutorial basis. Acceptable for graduate credit with approval. Every semester.

1-6 hrs

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ART 497 I 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. Every semester.

1-6 hrs

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ART 497 J Special Studies In Art

1-6 hrs

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ART 498 A 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. Every semester.

1-6 hrs

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ART 498 B 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. Every Semester.

1-6 hrs

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ART 498 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. Every semester.

1-6 hrs

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ART 498 F Special Problems In Casting

1-6 hrs

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ART 498 G Special Problems In Construction

With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. On demand.

1-6 hrs

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ART 498 I 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. Every semester.

1-6 hrs

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ART 498 J Advanced Problems In Intaglio

With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. Every semester.

1-6 hrs

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ART 498 L 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. Every semester.

1-6 hrs

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ART 498 M 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. Semester Offered: Every.

1-6 hrs

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ART 498 O 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.

1-6 hrs

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ART 498 Q Special Studies in Art: Internship

Advanced students gain invaluable practical experience in a professional setting in the field of art.

1-6 hrs

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ART 499 WI Senior Seminar

Capstone course for studio majors in all media. Meets once a week, three hours. Course covers contemporary issues in the arts, and critical theory. Seminar discussions are based on readings, guest speakers, visiting artists, and students' research. Intention of course is to address theoretical and practical issues in studio art practice, and to prepare students for graduation. Multiple papers, class presentation, and class participation are required. This course is writing intensive. Successful completion of the WEPT test required prior to enrolling. Prerequisite: Senior standing in studio. Offered: Winter Semester Annually

3 hrs

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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.

3 hrs

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A&S 103 A 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 A&S 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.

3 hrs

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A&S 103 B 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 A&S 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.

3 hrs

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A&S 103 C 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 A&S 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.

3 hrs

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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.

1 hr

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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.

2 hrs

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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.

3 hrs

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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.

3-6 hrs

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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.

3-6 hrs

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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.

3-6 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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A&S 300 CF Cluster Course: African/African American Women And Creativity

3 hrs

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A&S 304 CM 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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

1-4 hrs

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A&S 350 A Special Topics

An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

1-4 hrs

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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

1-4 hrs

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A&S 350 K Special Topics

1-4 hrs

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A&S 350 L Special Topics

An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

1-4 hrs

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A&S 350 S Special Topics

An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

1-4 hrs

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A&S 400 B Special Readings/Topics

1-6 hrs

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A&S 400 C Special Readings/Topics

1-6 hrs

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A&S 400 Special Readings/Topics

1-6 hrs

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A&S 400 H Special Readings/Topics

1-3 hrs

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A&S 400 J Special Readings/Topics

1-6 hrs

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A&S 400 L Special Readings/Topics

1-6 hrs

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A&S 400 M Special Readings/Topics

1-6 hrs

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A&S 400 N Special Readings/Topics

1-6 hrs

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A&S 400 PD Special Readings/Topics

1-6 hrs

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A&S 400 SA Special Readings/Topics

1-6 hrs

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A&S 400 Special Readings/Topics

1-3 hrs

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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.

3-6 hrs

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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.

3-6 hrs

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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.

3-6 hrs

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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).

1-5 hrs

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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.

3 hrs

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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.

2 hrs

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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.

2 hrs

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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.

4 hrs

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A&S 490 B Special Topics

1-3 hrs

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A&S 490 C Special Topics

1-3 hrs

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A&S 490 Special Topics

1-3 hrs

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A&S 490 F Special Topics

1-3 hrs

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A&S 490 L Special Topics

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A&S 490 P Special Topics

1-3 hrs

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A&S 490 SA Special Topics

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A&S 490 Special Topics

1-3 hrs

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A&S 490 W Special Topics

1-3 hrs

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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.

1-9 hrs

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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.

3-8 hrs

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Chemistry

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.

4 hrs

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CHEM 115 L 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.

1 hr

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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.

3 hrs

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CHEM 160 L 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.

1 hr

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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.

3 hrs

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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

4 hrs

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CHEM 211 L 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 211 Offered: Each Term

1 hr

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CHEM 212 LR 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

1 hr

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CHEM 212 R 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 212LR Offered: Each Term

4 hrs

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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: CHEM 320 or CHEM 321, or equivalent. Fall.

1 hr

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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

4 hrs

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CHEM 320 L 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 320 Offered: Winter, Summer

1 hr

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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

3 hrs

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CHEM 321 L 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

1 hr

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CHEM 322 L 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

1 hr

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CHEM 322 R Organic Chemistry II

Continuation of CHEM 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

3 hrs

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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.

3 hrs

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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.

4 hrs

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CHEM 341 WI 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

4 hrs

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CHEM 345 R 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.

3 hrs

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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

3 hrs

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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

2 hrs

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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.

3 hrs

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CHEM 388 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. Prerequisite: CHEM 387.

3 hrs

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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 CHEM 320, 322R or H322R. On demand.

1-3 hrs

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CHEM 390 PT Special Topics In Chemistry

1-3 hrs

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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

1-3 hrs

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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

1-3 hrs

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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

1 hr

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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

3 hrs

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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

3 hrs

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CHEM 434 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.

3 hrs

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CHEM 437 WI 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

3 hrs

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CHEM 442 R 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.

3 hrs

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CHEM 451 R Inorganic Chemistry

Modern concepts and theories of inorganic chemistry. Prerequisite or corequisite: CHEM 432. Three lecture hours each week. Winter.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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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.

1-3 hrs

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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

1-9 hrs

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CHEM H212 LR Experimental General Chemistry II-Honors

An alternative laboratory experience to CHEM 212LR, for those students gifted in laboratory skills and interested in working in a research lab setting. By arrangement. Winter.

1 hr

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CHEM H321 Honors: Organic Chemistry I

3 hrs

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CHEM H321 L Organic Chemistry Laboratory I - Honors

A more intense version of CHEM 321L. See course description for CHEM 321L for details. Offered: Winter term.

1 hr

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CHEM H322 LR Organic Chemistry Laboratory II-Honors

A more intense version of CHEM 322L. See course description for CHEM 322L. Prerequisite: CHEM 321L.

2 hrs

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CHEM H322 R Honors: Organic Chemistry II

3 hrs

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Chinese

CHINESE 110 Elementary Chinese I

Introduction to the sound system of modern Chinese, aural comprehension, oral expression, basic structural patterns, writing systems. Fall.

5 hrs

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CHINESE 120 Elementary Chinese II

Dialogue practice and conversation, reading of simple stories and essays, comparative study of Chinese and English grammar and syntax. Prerequisite: CHINESE 110. Winter.

5 hrs

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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.

3 hrs

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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.

3 hrs

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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.

2-4 hrs

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CHINESE 290 Special Intermediate Chinese Topics II

Continuation of CHINESE 280. May not be repeated for credit. As needed.

2-4 hrs

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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.

1-3 hrs

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Classical and Ancient Studies

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.

3 hrs

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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.

1-3 hrs

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CLASSICS 300 A 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.

1-3 hrs

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CLASSICS 300 CB 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.

3 hrs

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CLASSICS 300 CR Roman Revolution: History And Culture From Gracchi 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.

3 hrs

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CLASSICS 300 CS 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.

3 hrs

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CLASSICS 300 CY 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.

3 hrs

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CLASSICS 300 CZ 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 GEOLOGY 326CZ. Offered: On Demand

3 hrs

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CLASSICS 300 D 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.

1-3 hrs

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CLASSICS 310 WI 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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CLASSICS 340 A 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 Lyric Poets, Virgil, Horace Juvenal, Ovid and Plautus. Also listed as ENGLISH 340A

3 hrs

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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CLASSICS 470 P 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.

4 hrs

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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.

3 hrs

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CLASSICS 471 P 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. Also listed as HISTORY 471P.

4 hrs

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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.

3 hrs

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CLASSICS 472 P 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.

4 hrs

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CLASSICS 475 WI 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.

3 hrs

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CLASSICS 499 Senior Tutorial

A three-hour comprehensive reading and research tutorial leading to the writing of a senior paper. It consists 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.

3 hrs

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Communication Studies

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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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. Offered: Fall

3 hrs

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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

3 hrs

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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: Summer & Fall

3 hrs

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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.

3 hrs

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COMM-ST 303 WI 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.

3 hrs

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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.

3 hrs

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COMM-ST 308 WI 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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COMM-ST 312 P 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.

3 hrs

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COMM-ST 314 WI 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.

3 hrs

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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: COMM-ST 110. Offered: On demand.

3 hrs

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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" semiology, post-structuralism, psychoanalysis and ethnography. Term paper required. Prerequisite: Offered: Every semester.

3 hrs

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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.

3 hrs

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COMM-ST 331 WI 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.

3 hrs

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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

3 hrs

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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.

3 hrs

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COMM-ST 341 WI 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: COMM-ST 308 and successful completion of the WEPT required for admission.

3 hrs

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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.

3 hrs

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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 COM-ST 308. Offered: Fall/Winter.

3 hrs

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COMM-ST 344 WI 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.

3 hrs

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COMM-ST 351 WI 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.

3 hrs

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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.

3 hrs

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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. Prerequisite: COMM-ST 308. Offered: Fall.

3 hrs

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COMM-ST 371 Intermediate Video Production

A study of the principles and techniques of studio production, with emphasis on introducing and developing intermediate skills using professional broadcast video equipment and post-production technologies. Lecture, discussion, and laboratory. Prerequisite: COMM-ST 250 or consent of instructor.

3 hrs

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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

3 hrs

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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.

3 hrs

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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. Prerequisite: COMM-ST 308 Offered: Fall and winter.

3 hrs

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COMM-ST 377 WI 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.

3 hrs

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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

3 hrs

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COMM-ST 378 WI 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 Intensive. Successful completion of the WEPT Exam required. Offered: Fall 2003.

3 hrs

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COMM-ST 380 Contemporary Media Topics

3 hrs

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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

3 hrs

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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) subjects, 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.

3 hrs

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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. Prerequisites: COMM-ST 250 or COMM-ST 270 Offered: Fall

3 hrs

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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.

3 hrs

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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.

1-4 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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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.

1-3 hrs[back to top](#)**COMM-ST 400 CB 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

3 hrs[back to top](#)**COMM-ST 400 CT Cluster Course: Healing And Cultural Diversity****3 hrs**[back to top](#)**COMM-ST 400 G Special Studies In Communication Studies****1-3 hrs**[back to top](#)**COMM-ST 400 M Special Studies In Communication Studies****1-6 hrs**[back to top](#)**COMM-ST 400 N Special Studies****1-3 hrs**[back to top](#)**COMM-ST 400 Q Special Studies In Communication Studies****1-3 hrs**[back to top](#)**COMM-ST 400 W Special Studies in Communication Studies****1-3 hrs**[back to top](#)**COMM-ST 400 Z Special Studies****1-3 hrs**[back to top](#)

COMM-ST 402 CD 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.

3 hrs

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COMM-ST 403 CE 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.

3 hrs

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COMM-ST 404 CD 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 placed 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

3 hrs

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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, computer0mediated, or intercultural communication. Prerequisite: None Offered: On demand.

3 hrs

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COMM-ST 432 Press, Politics And Public Policy

Undergraduate component of COMM-ST 532. An advanced course in the study of the press and political establishments in the formation of public policy. Lecture, discussion and research. Prerequisites: Two semester of undergraduate writing courses of 300-400 level or professional equivalents.

3 hrs

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COMM-ST 444 WI 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.

3 hrs

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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.

3 hrs

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COMM-ST 454 Advanced Screenwriting

This course provides students with advanced theory in narrative screenwriting, training in industry standard script analysis (called "coverage") and story editing. Students will be required to draft, revise and workshop a short film screenplay or will focus on a feature screenplay, delivering a draft and revision of the first act and a detailed outline for the rest of the script. Students will workshop feature screenplays in small groups, emphasizing the art of constructive story editing. Prerequisite(s): COMM-ST 240 Intro to Screenwriting

3 hrs

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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

3 hrs

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COMM-ST 458 WI 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.

3 hrs

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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. Prerequisites: COMM-ST 308 AND COMM-ST 361. Offered: On demand.

3 hrs

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COMM-ST 466 Electronic Journalism Performance

An advanced study of television and Internet news gathering, field production and performance for electronic media. Prerequisite: COMM-ST 456 Offered: Fall

3 hrs

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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. Prerequisites: COMM-ST 270, COMM-ST 351 and COMM-ST 371. Offered: Winter

3 hrs

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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 240, COMM-ST 250, COMM-ST 373 or professional equivalents. Offered: Fall

3 hrs

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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.

3 hrs

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COMM-ST 483 Research Seminar In Communication Studies

This is the departmental capstone course and is required for majors in 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. Prerequisites: Completion of COMM-ST 308 and COMM-ST 344 and 12 additional hours of Communication Studies credits. Offered: Fall and Winter.

3 hrs

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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.

1-4 hrs

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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 three hours with any one instructor. Offered every semester.

1-6 hrs

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Criminal Justice and Criminology

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.

3 hrs

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CJC 101 P 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, and social scientists, the general public, and workers in the system on diverse issues of social control, criminal behavior, treatment and punishment.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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CJC 300 Structural Theories Of Crime

The impact of sociodemographic, geographic, economic, political variables and sex roles in the occurrence and distribution of crime.

3 hrs

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CJC 315 Crime, Criminals And Victims

This course addresses the study of crime, criminal 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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CJC 320 The Supreme Court And The Criminal Process

Course examines recent Supreme Court decisions on the constitutional aspects of the administration of justice. Topics include the nationalization of the Bill of Rights and jurisdiction with an emphasis on problems involving the Fourth, Fifth, Sixth, Eighth, and 14th Amendments.

3 hrs

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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.

3 hrs

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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.

3 hrs

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CJC 355 P 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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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CJC 420 Control Of Crime And Delinquency

The various ways societies have tried to control and prevent violations. Topics: the nature and types of law; a critical analysis of American police, judicial and penal systems; the prevention of crime and delinquency. Also offered as SOCIOL 420.

3 hrs

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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. Also offered as SOCIOL 421.

3 hrs

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CJC 421 P 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.

3 hrs

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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. Also offered as SOCIOL 424.

3 hrs

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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.

3 hrs

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CJC 435 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.

3 hrs

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CJC 435 WI 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

3 hrs

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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.

3 hrs

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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.

3 hrs

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CJC 470 WI 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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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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.

3-6 hrs

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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.

1 hr

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CJC 492 A Topics In Criminal Justice And Criminology

1 hr

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CJC 492 B Topics In Criminal Justice And Criminology

1 hr

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CJC 492 C Topics In Criminal Justice And Criminology

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CJC 492 D Topics In Criminal Justice And Criminology

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CJC 492 Topics In Criminal Justice And Criminology

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CJC 492 F Topics In Criminal Justice And Criminology

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CJC 492 G Topics In Criminal Justice And Criminology

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CJC 492 H Topics In Criminal Justice And Criminology

1 hr

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Economics

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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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. ECON 201 and 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every semester.

3 hrs

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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.

3 hrs

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ECON 300 CM 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.

3 hrs

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ECON 300 CS 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.

3 hrs

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ECON 301 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

3 hrs

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ECON 302 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

3 hrs

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ECON 303 H 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

3 hrs

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ECON 308 Challenges Facing The Us Economy

This course provides an introduction to challenges facing the US economy, such as growing inequality and poverty in the midst of plenty, persistent unemployment in the central cities, the threat of recession or inflation, the problems and opportunities created by an aging society, implementation of welfare-to-work plans, and other topics of interest to students. Semester offered: On request

3 hrs

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ECON 310 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, economic issues and the history of the UN in an effort to understand more fully the UN's role in the international diplomacy. Students in this course will have an opportunity to participate in various Model UN conferences during the year. Prerequisites: None Offered: Fall Semester Restrictions: None

3 hrs

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ECON 312 Theory Of Economic Development

Controversial problems affecting the nature, sources and process of development of industrial technology and the economy of private enterprise. On demand.

3 hrs

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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

3 hrs

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ECON 323 P 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.

4 hrs

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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

3 hrs

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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.

3 hrs

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ECON 343 P 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.

4 hrs

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ECON 395 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 ECON 395 courses will apply towards the department's graduation requirements for a major.

1 hr

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ECON 395 A Economic Issues

1 hr

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ECON 395 B The Economics Of Law

1 hr

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ECON 395 C The Economics Of Energy

1 hr

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ECON 395 D Economic Issues

1 hr

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ECON 395 The Economics Of Aging

1 hr

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ECON 395 F The Economics Of Minorities

1 hr

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ECON 395 G The Economics Of Poverty

1 hr

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ECON 395 H The Economics Of The Arts

An analysis of the past and present policies regarding the financing of the Arts.

1 hr

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ECON 395 I 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

1 hr

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ECON 397 A 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.

1 hr

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ECON 397 B 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.

1 hr

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ECON 404 R 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

3 hrs

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ECON 404 RR 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

3 hrs

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ECON 405 European Economic Systems

A general study of the economic systems of Germany, France, Sweden, the United Kingdom, Russia, and other countries; and the European Economic Union. The course will study the economic-business organization, economic and social policies, trade policies, and the on-going political, economic, and business changes within the area, and their relation to other areas of the world in terms of economics, business and trade. Prerequisite: Either ECON 100, ECON 101, ECON 201, or ECON 202. Offered: Fall

3 hrs

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ECON 406 WI 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.

3 hrs

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ECON 408 The Twentieth Cntry: Crisis In Eco History/Changing Eco Analysis

The course will deal with selected major historical crisis in the Twentieth Century that changed Economic Theory and our lives, such as the post World War I period; the Depression of the 1930s; the international payments crisis and the development of Bretton Woods; the oil crisis of the 1970s; and the effect of the above upon changing economic analysis such as the Keynesian Revolution and its "counter revolution", and the economic and policy consequences. Prerequisites: ECON 201 and ECON 202; Senior or Graduate standing.

3 hrs

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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

3 hrs

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ECON 414 Problems In Latin American Development

Analysis of those historical, geographic, political, social and economic factors which have served to impede the development of the Latin American countries and discussion of development planning as it applies to these problems. Prerequisite: ECON 412 or consent of the instructor. On request.

3 hrs

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ECON 416 Law And Economics

This course will examine the use of economic principles in the analysis and application 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. Prerequisite: ECON 302 Offered Every other winter.

3 hrs

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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

3 hrs

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ECON 421 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

3 hrs

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ECON 423 P 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.

4 hrs

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ECON 425 Intermediate Economic Statistics

An introduction to the empirical side of economics. Estimation theory and the properties of commonly used estimators are covered. Some of the more important topics dealt with are: multiple regression, heteroscedasticity and autocorrelation in regression analysis, analysis of variance and the use of qualitative variables in regression analysis. Hands-on work with computer software designed for econometrics is stressed. No experience with computers necessary. Prerequisites: ECON 301, ECON 302 and MATH 235 or its equivalent. Semester offered: Every year.

3 hrs

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ECON 429 Environment, Resources And Economic Growth

This course focuses on the theory and policy issues involved in resource creation and depletion; environmental destruction, preservation and recreation; and the interrelation of these problems of and prospects for economic growth. Prerequisite: ECON 202. On request.

3 hrs

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ECON 431 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. Every year.

3 hrs

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ECON 433 P 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.

4 hrs

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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.

3 hrs

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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.

3 hrs

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ECON 438 Economic Policy

Analysis of the confluence of political and economic behavior, the economics of collective action. Prerequisites: ECON 301 and ECON 302. On request.

3 hrs

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ECON 442 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. Prerequisite: ECON 301 or equivalent

3 hrs

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ECON 448 Socialist Economic Systems

3 hrs

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ECON 450 R Regional Economics

Contemporary policy approaches to regional growth and decline are analyzed in this course. Prerequisite: ECON 302
Semester offered: On request

3 hrs

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ECON 451 Institutional Economic Theory

Analysis of impact of modern philosophy and developments in social sciences on economic theory. Prerequisites: ECON 301, ECON 302 or consent. Semester offered: Every semester

3 hrs

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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.

3 hrs

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ECON 460 Industrial Organization

The structure, conduct, and performance of American industry. Historical evolution of American industry; alternative industrial systems. Antitrust policies and their alternatives. Technological change and industrial performance. .Prerequisite: ECON 301, ECON 302. On request.

3 hrs

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ECON 461 Public Utility Economics

This course is designed to examine the theory and practice of public utility economics. It includes study of the public utility concept and how it has evolved and is evolving, the operation of public utilities in the U.S. economy, the methods and practice of regulating utilities, industry by industry case studies and current issues in public utility economics. On request.

3 hrs

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ECON 465 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.

3 hrs

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ECON 480 Managerial Economics And Operations Analysis

This course focuses on the application of microeconomic theory to a variety of contemporary business and government problems. Through case studies, students are introduced to the full complexity of actual industrial and government decisions and the diversity of microeconomic tools and concepts that can be brought to bear on these decisions. Prerequisites: ECON 301 and ECON 302. Semester offered: On request

3 hrs

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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.

3 hrs

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ECON 487 H 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.

3 hrs

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ECON 488 Radical Political Economy

This course will cover the ideas that constitute radical political economy. It will show how radical political economy can be used to examine current economics and social problems and will outline possible economic structures of utopian visions. Offered: On Request

3 hrs

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ECON 490 Readings In Economics

Intensive reading and/or research in an area selected by the student in consultation with the professor in any of the following fields: (a) economic theory, (b) history of economic thought, (c) labor economics, (d) urban economics, (e) monetary and fiscal policy and theory, (f) international economics, (g) economic development. (h) comparative economic systems, (i) public finance, (j) public policy toward business, (k) quantitative economics. By permission only. On request.

1-3 hrs

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ECON 495 Colloquium In Economics

Each course will deal with a particular topic in economics: A) Manpower Economics; B) Political Economy; C) Area Studies in Economics-Europe; D) Area studies in Economics-Africa; and E) Area studies in Economics-Asia. Prerequisite: ECON 201, ECON 202. On request.

3 hrs

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ECON 497 Internship

The course allows the student to participate in cognate, approved internships of a professional nature. Prerequisite: Senior or graduate standing. Offered by permission only.

3 hrs

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ECON 499 WI 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

3 hrs

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English

ENGLISH 100 Introductory Writing

The study and practice of the rhetorical principles and basic skills of standard English prose, and critical reading. Frequent writing exercises emphasize formulating a thesis, organization, development and the grammatical elements of sentences. This course carries no credit toward graduation in the College of Arts and Sciences. However, on the recommendation of the instructor, a student may take the standard ENGLISH 110 final examination. If, in the opinion of the Director of Freshman English and two other readers, the student passes the examination with a B or better grade, the student may receive ENGLISH 110 credit.

3 hrs

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ENGLISH 100 S 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

1-6 hrs

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ENGLISH 100 T TOEFLPreparation

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

3 hrs

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ENGLISH 101 B 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.

3 hrs

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ENGLISH 101 C 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.

3 hrs

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ENGLISH 101 D 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.

3 hrs

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ENGLISH 101 G 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.

3 hrs

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ENGLISH 102 B 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 students'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.

3 hrs

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ENGLISH 102 C 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.

3 hrs

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ENGLISH 102 D 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.

3 hrs

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ENGLISH 102 G 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, wh-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

3 hrs

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ENGLISH 103 B 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.

3 hrs

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ENGLISH 103 C 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.

3 hrs

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ENGLISH 103 D 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.

3 hrs

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ENGLISH 103 G 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.

3 hrs

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ENGLISH 104 B 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.

3 hrs

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ENGLISH 104 C 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.

3 hrs

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ENGLISH 104 D 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.

3 hrs

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ENGLISH 104 G 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.

3 hrs

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ENGLISH 105 A 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.

3 hrs

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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

3 hrs

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ENGLISH 110 A 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

2-3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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ENGLISH 225 A 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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ENGLISH 300 Interdisciplinary Studies:Cluster Course Offerings

3 hrs

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ENGLISH 300 CB Cluster Course: Women In A Man's World: Gender, Sex & Status In Classcl Antq

3 hrs

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ENGLISH 300 CD 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.

3 hrs

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ENGLISH 300 CE 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.

3 hrs

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ENGLISH 300 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.

3 hrs

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ENGLISH 300 CR 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 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, 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.

3 hrs

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ENGLISH 300 CS Cluster Course:Clio&The Other Muses:Hist&Culture 5th Cent Athens

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.

3 hrs

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ENGLISH 300 CY 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.

3 hrs

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ENGLISH 300 F 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. Excercises 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

3 hrs

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ENGLISH 301 WI 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.

3 hrs

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ENGLISH 303 WI 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.

3 hrs

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ENGLISH 304 WI 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.

3 hrs

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ENGLISH 305 WI Theory And Practice Of Composition

A course in expository writing for the student with superior writing preparation and ability. The work of the course will include readings on the nature of language, the writing of frequent short essays and a long paper. Admittance by consent of the instructor. (NOTE: Students may not receive credit for more than one of the following: ENGLISH 305, ENGLISH 305WO, and ENGLISH 307WI). Prerequisites: ENGLISH 110, ENGLISH 225, and successful completion of the WEPT. Offered: Every semester.

3 hrs

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ENGLISH 307 WI Writing In Cultural Contexts

This course focuses on writings that evolve from cultural, intercultural, and natural environments and offers development of students' critical reading, writing, and thinking skills by focusing on rhetorical situations and the more global contexts of writing. Students enhance their understanding of leadership and cooperation through synthesizing their knowledge and abilities of written communication with knowledge they have gained in other courses. Required for business students. Offered for undergraduate credit only. (Note: Students may not receive credit for more than one of the following: 305WI, 307WI, 403). Prerequisites: ENGLISH 110 and ENGLISH 225 or equivalent and successful completion of the WEPT. Offered: Every semester.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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ENGLISH 313 WI 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.

3 hrs

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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.

3 hrs

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ENGLISH 316 WI 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3-4 hrs

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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.

3 hrs

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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.

3 hrs

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ENGLISH 323 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.

3 hrs

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ENGLISH 325 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

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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. Prerequisite: None.

3 hrs

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ENGLISH 332 WI 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. Offered: On demand

3 hrs

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ENGLISH 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, contact and/or slave narratives, folklore, and songs.

3 hrs

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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.

3 hrs

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ENGLISH 339 Creative Writing: 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 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 accept a short story and revise it after giving and receiving feedback in small groups. Crosslisted with COMM-ST 354: Intro to Screenwriting.

3 hrs

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ENGLISH 340 A 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.

3-4 hrs

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ENGLISH 342 WI 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

3 hrs

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ENGLISH 344 WI 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

3 hrs

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ENGLISH 345 WI 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.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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ENGLISH 365 Contemporary Novel

This course focuses on selected novelists since 1945 and is organized around particular literary themes, sub-genres, or contemporary issues.

3 hrs

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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

3 hrs

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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, 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 CLASSICS 376.

3 hrs

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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, Bienvenido Santos, and Hisaye Yamamoto.

3 hrs

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ENGLISH 400 CA 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.

3 hrs

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ENGLISH 400 CB 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.

3 hrs

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ENGLISH 400 CF 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.

3 hrs

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ENGLISH 400 CQ 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.

3 hrs

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ENGLISH 401 WI Feature Writing

Survey of the techniques of news feature writing and practical application in writing the news feature, the historical feature, travel, personal feature, etc. Assignments are given each week and student manuscripts read in class. Prerequisites: ENGLISH 110, 225, and successful completion of the WEPT.

3 hrs

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ENGLISH 402 Newspaper Editing

Practical laboratory experience in newspaper copy editing, simulating actual newsroom problems and practices, with emphasis on handling wire service stories; grammar and newspaper style; reporter accuracy, fairness, and avoidance of libel; news management; layout and production; headline writing.

3 hrs

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ENGLISH 404 Old English

This course is a study of Old English, its grammar, its poetic style, and its literature, both poetry and prose.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 Wortley Montagu. Prerequisites: ENGLISH 317 or permission of instructor. Offered: On demand

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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ENGLISH 425 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.

3 hrs

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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 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.

3 hrs

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ENGLISH 427 Contemporary Poetry

Study of works by contemporary poets (post World War II), such as Auden, Bishop, Hayden, Berryman, Rukeyser, Larkin, Rich, Plath, Heaney, Boland, Komunyakaa. Offered: On demand.

3 hrs

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ENGLISH 428 20th-Century American Literature

An intensive study of either selected major American writers in the 20th century or of 20th century literary movements. Prerequisites: ENGLISH 321 or permission of instructor. This prerequisite applies only to undergraduates.

3 hrs

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ENGLISH 429 B Advanced Creative Writing: Screenwriting

This course provides students with advanced theory in narrative screenwriting, training in industry standard script analysis (called "coverage") and story editing. Crosslisted with COMM-ST 454 Advanced Screenwriting. Prerequisite: ENG 312, 315, 339 or COMM-ST 354

3 hrs

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ENGLISH 430 WI 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.

3 hrs

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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.

3 hrs

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ENGLISH 432 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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ENGLISH 435 Advanced Creative Writing Poetry

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.

3 hrs

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ENGLISH 436 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.

3 hrs

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ENGLISH 437 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.

3 hrs

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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.

1-3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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ENGLISH 449 A 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.

1-3 hrs

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ENGLISH 449 B 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.

1-3 hrs

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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.

1-3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

1-4 hrs

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ENGLISH 460 A Special Offerings

1-4 hrs

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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. Offered: On demand.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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ENGLISH 499 Senior Tutorial

A three-hour comprehensive reading and research tutorial (to be taken during the student's final semester) leading to the writing of a senior paper. A requirement for all English majors. For regular English majors and those with an emphasis in secondary education, the paper will be a critical or scholarly study of 20-25 pages. For journalism and creative writing students, the paper will be a creative writing project of similar length. Prerequisite: Students must have completed all core requirements before enrolling in this course. Each semester.

3 hrs

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ENGLISH H327 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.

3 hrs

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Environmental Science

ENV-SCI 110 L 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

2 hrs

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ENV-SCI 110 R 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

3 hrs

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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

3 hrs

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ENV-SCI 310 Field Experience In Waste Management

This course provides an overview of waste management issues, including nature, classification and disposal of waste. 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 wastewater treatment and disposal of solid, hazardous and biologic wastes. The course includes travel to neighboring states and Yucca Mountain, Nevada. Students may register for neighboring states coursework only (2 credit hours) or neighboring states and Yucca Mountain coursework (3 credit hours). Final report required. Prerequisites: Jr/Sr or instructor's consent Offered: Summer

2-3 hrs

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ENV-SCI 332 CZ Enviromental 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.

3 hrs

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ENV-SCI 3 Upper Level Environmental Science Elective Lab

Upper Level Transfer Credit

99 hrs

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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 GEOG 446.

3 hrs

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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.

1-4 hrs

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Environmental Studies

ENV-STDY 225 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 GEOG 225

3 hrs

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ENV-STDY 251 Women's Studies: Women & 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 are linked to environmental issues.

3 hrs

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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

3 hrs

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ENV-STDY 499 WI 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.

3 hrs

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Foreign Language

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.

2-5 hrs

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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.

2-5 hrs

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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.

2-4 hrs

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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.

2-4 hrs

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FRN-LNG 300 CM 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.

3 hrs

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FRN-LNG 300 CS 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.

3 hrs

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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.

1-3 hrs

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FRN-LNG 400 CF 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.

3 hrs

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FRN-LNG 400 CI 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.

3 hrs

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FRN-LNG 400 CM 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.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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FRN-LNG 480 A 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.

1-3 hrs

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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.

3 hrs

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FRN-LNG H400 CM (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.

3 hrs

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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 and summer.

5 hrs

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FRENCH 120 Elementary French II

Continuation of FRENCH 110. Every semester. Prerequisite(s): FRENCH 110 or equivalent. Semester Offered: Every Semester.

5 hrs

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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. Fall.

3 hrs

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FRENCH 221 Second Year French II

Continuation of FRENCH 211. Winter.

3 hrs

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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.

3 hrs

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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.

2-4 hrs

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FRENCH 290 Special Intermediate French Topics II

Continuation of FRENCH 280. May not be repeated for credit. As needed.

2-4 hrs

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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. Winter.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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FRENCH 325 Intermediate Conversation And Composition II

Continuation of FRENCH 315. Required for major. Prerequisite: FRENCH 315. Every winter.

3 hrs

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FRENCH 340 WI French Texts In Translation

Seminar 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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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FRENCH 400 CF 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 HISTORY 400CF.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 department chairman. No more than six hours credit may be applied towards a degree. Prerequisite: FRENCH 325. Fall.

3 hrs

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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.

3 hrs

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FRENCH 425 Advanced Conversation And Composition II

Continuation of FRENCH 415. See FRENCH 415. Required for teacher certification in French. Prerequisite: FRENCH 415. Winter.

3 hrs

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FRENCH 426 20Th-Century French Literature

Selected readings from the Belle Epoque to the contemporary period. Also offered as FRENCH 5526.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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FRENCH 445 Epistolarity 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.

3 hrs

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FRENCH 446 17Th-Century French Drama

The classical period: Emphasis on Corneille, Racine and Moliere. Also offered as FRENCH 5546.

3 hrs

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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.

3 hrs

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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.

3 hrs

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FRENCH 452 Medieval Poetry

A study of medieval poetry including religious and secular poetry, Provençal 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 5557.

3 hrs

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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 Merimee. The advent of realism and naturalism in France. Readings include Balzac, Flaubert, Daudet, De Maupassant, and Zola. Also offered as FRENCH 5563.

3 hrs

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FRENCH 470 Studies In Critical Thought

Various currents of 20th-century literary criticism and their political and historical contexts. Also offered as FRENCH 5570.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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. Permission of the department chairman is required. On demand.

1-3 hrs

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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.

1-3 hrs

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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.

3 hrs

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FRENCH H280 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.

2-4 hrs

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FRENCH H380 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.

1-3 hrs

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Geography

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.

3 hrs

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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.

3 hrs

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GEOG 200 World Geography I

A study of Europe, Australia and New Zealand, Anglo America, and Latin America organized around the basic concepts of human -environmental relationships and spatial interaction. Fall.

3 hrs

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GEOG 202 World Geography II

A study of Russia and the other former Soviet Republics, the Middle East, the Orient, Africa, and the Pacific World organized around the basic geographic concepts of human-environmental relationships and spatial interaction. Offered: Winter

3 hrs

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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

4 hrs

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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

3 hrs

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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

4 hrs

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GEOG 225 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 Environmental Studies 225.

3 hrs

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GEOG 300 Interdisciplinary Studies:Cluster Courses

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

4 hrs

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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.

4 hrs

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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

4 hrs

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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

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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GEOG 340 Regional Geography Of The United States And Canada

A systematic study of the physical and human geography of the United States and Canada. Emphasis is placed on the physical setting and the influence of the people on the land. Contemporary issues such as public vs. private land, water resources and energy resource distribution are emphasized. Offered: On demand.

3 hrs

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GEOG 341 Regional 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

3 hrs

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GEOG 342 Regional 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

3 hrs

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GEOG 350 Regional Geography Of Europe

A study of human activities in relation to the physical environment in Europe. Emphasis is placed on nation states and their economic, social and political geography within their physical and historical context. Offered: On demand

3 hrs

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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

3 hrs

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GEOG 352 Regional 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

3 hrs

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GEOG 355 Regional 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

3 hrs

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GEOG 360 Principles Of Biogeography

Distribution of plants and animals on earth, emphasizing variations in the physical environment over space and time, the concept of the biological niche, the phenomena of speciation and extinction, island biogeography, and recent theoretical developments relating to species disjunctions (vicariance biogeography). Prerequisite: ENV-SCI 110R. Offered: On demand.

3 hrs

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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.

1 hr

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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

4 hrs

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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

4 hrs

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GEOG 403 WI 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 GEOG 503wi. Offered: on demand

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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GEOG 417 Special Topics

Individual research and study of a selected topic in geography, meteorology or earth science. Prerequisites: Approval of instructor. On demand.

1-3 hrs

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GEOG 426 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 data. Prerequisite: Permission of Instructor Offered: Every other Fall semester

3 hrs

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GEOG 430 Energy Resources

Theories regarding the origins of energy resources with emphasis on hydrocarbon fuels. Practical problems of exploration, production, storage and conservation of energy resources. Discussion of estimated national and worldwide energy supplies, reserves and alternate sources in relation to environmental concerns. Three hours lecture, occasional field trips. Prerequisite (s): ENV-SCI 110R; GEOLOGY 220 recommended. Offered: On demand.

3 hrs

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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

3 hrs

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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 cities, and the environment. Offered: On demand.

3 hrs

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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.

3 hrs

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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

3 hrs

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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. Prerequisites: GEOG 215 or GEOG 319, or permission of instructor Offered: On demand

3 hrs

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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.

3 hrs

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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

4 hrs

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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

3 hrs

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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

1-3 hrs

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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

1-6 hrs

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GEOG 499 WI 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

3 hrs

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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

3 hrs

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GEOLOGY 1 Geology Elective Lecture

Transfer Credit

99 hrs

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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

3 hrs

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GEOLOGY 220 L 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

2 hrs

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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

4 hrs

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GEOLOGY 250 Field Methods In Earth And Environmental Science

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 once a week for three hours. Prerequisite: GEOLOGY 101 and GEOLOGY 101L or ENV-SCI 111 and ENV-SCI 111L. GEOLOGY 220 and GEOLOGY 220L or ENV-SCI 110R and ENV-SCI 110L Offered: Fall

3 hrs

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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

3 hrs

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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

3 hrs

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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.

4 hrs

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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

4 hrs

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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.

4 hrs

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GEOLOGY 325 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

4 hrs

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GEOLOGY 326 CZ 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

3 hrs

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GEOLOGY 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-SCI110R, GEOG 150, GEOLOGY 220 or instructor's permission. Offered: On demand

3 hrs

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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.

4 hrs

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GEOLOGY 342 R 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

3 hrs

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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

4 hrs

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GEOLOGY 370 R 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

3 hrs

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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.

1 hr

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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.

3 hrs

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GEOLOGY 407 Public Archaeology: Issues in Archeological Resources

This class examines contemporary issues managing archaeological resources. This 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.

3 hrs

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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.

3 hrs

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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.

1-5 hrs

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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

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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GEOLOGY 417 A Special Topics: Common Rocks, Minerals & Fossils Of The K C Area

1-3 hrs

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GEOLOGY 417 C Special Topics

1-3 hrs

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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 325, GEOLOGY 342, and GEOLOGY 350, and permission of instructor. On demand.

3 hrs

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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

2 hrs

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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

2 hrs

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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

3 hrs

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GEOLOGY 442 R 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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

6 hrs

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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. Prerequisites: Permission of Instructor. Offered: Summer, Fall or Winter as available

1-6 hrs

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GEOLOGY 498 Undergraduate Field Research

The student will collaborate with fellow students and instructors in collection of original field geologic data at a location remote from campus. Field research will be carried out during semester intersessions or summer semesters. Prerequisite: Permission of instructor Semester offered: On demand

1-5 hrs

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GEOLOGY 499 WI Geology Seminar

Students participate in discussions; present formal talks; and prepare written papers on selected topics. Prerequisite: Senior standing and successful completion of the WEPT Offered: Winter

3 hrs

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GEOLOGY H434 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

2 hrs

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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.

5 hrs

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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.

5 hrs

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GERMAN 120 Elementary German II

Continuation of GERMAN 110. Prerequisite(s): GERMAN 110 or equivalent.

5 hrs

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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. Offered: Winter.

5 hrs

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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.

3 hrs

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GERMAN 221 Second-Year German II

Continuation of GERMAN 211. Every winter.

3 hrs

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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.

3 hrs

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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.

2-4 hrs

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GERMAN 290 Special Intermediate German Topics II

Continuation of GERMAN 280. May not be repeated for credit. As needed.

2-4 hrs

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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. Even numbered years, fall.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 developemtn of various genres. Prerequisite: GERMAN 221 or equivalent. Offered: On demand.

3 hrs

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GERMAN 310 Classical Period Of German Literature

Readings in the late 18th and 19th centuries with emphasis on Goethe and Schiller.

3 hrs

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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. Every fall.

3 hrs

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GERMAN 325 Intermediate Conversation And Composition II

Continuation of GERMAN 315. Required for major. Prerequisite: GERMAN 315. Every winter.

3 hrs

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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).

3 hrs

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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.

3 hrs

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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 2000's by accessing their depiction of historical and contemporary Germany through 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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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GERMAN 410 A 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.

3 hrs

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GERMAN 411 Romanticism

Main currents and authors from the Romantic school, 1780-1820.

3 hrs

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GERMAN 412 The German Novelle

An examination of representative novellen of the 19th and 20th centuries. Special emphasis on the study of form.

3 hrs

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GERMAN 414 German Lyric Poetry

Lyric poetry from its beginnings to the present. Emphasis on 19th and 20th centuries.

3 hrs

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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 department chairman. No more than six hours credit may be applied towards a degree. Prerequisite: GERMAN 325.

3 hrs

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GERMAN 421 19Th-Century Drama

Kleist through Hauptmann.

3 hrs

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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

3 hrs

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GERMAN 425 Advanced Conversation And Composition II

Continuation of GERMAN 415. See GERMAN 415. Required for teacher certification in German. Prerequisite: GERMAN 415.

3 hrs

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GERMAN 426 20Th-Century German Literature

Selected readings from Neo-Romanticism to the present. On demand.

3 hrs

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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

3 hrs

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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. Permission of the department chairman is required. On demand.

1-3 hrs

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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.

1-3 hrs

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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. Offered: Winter Semester.

3 hrs

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GERMAN H310 Classical Period Of German Literature

Readings in the late 18th and 19th centuries with emphasis on Goethe and Schiller.

3 hrs

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Greek

GREEK 110 Elementary 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. Every other fall semester. Sophomore Status or Consent of Instructor. Offered: Every Other Fall Semester

5 hrs

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GREEK 120 Elementary 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 or equivalent. Semester Offered: Every other winter semester.

5 hrs

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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.

2-4 hrs

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GREEK 290 Special Intermediate Greek Topics II

Continuation of GREEK 280. May not be repeated for credit. As needed.

2-4 hrs

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GREEK 301 Herodotus

Selected readings in Ancient Greek from Herodotus' Histories. Prerequisite: GREEK 211 or consent of the instructor.

3 hrs

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GREEK 302 Homer

Selected readings in Ancient Greek from Homer's Iliad or Odyssey. Prerequisite: GREEK 211 or consent of the instructor.

3 hrs

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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.

3 hrs

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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.

3 hrs

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GREEK 312 Greek Narrative Prose

Selected readings in Ancient Greek from Herodotus, Thucydides, Xenophon, Lucian, etc. Prerequisite: GREEK 211 or consent of the instructor.

3 hrs

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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.

1-3 hrs

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Hebrew 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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HISTORY 300 B Special Studies In History

1-3 hrs

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HISTORY 300 BB Special Studies in History**1-3 hrs**[back to top](#)**HISTORY 300 C Special Studies****1-3 hrs**[back to top](#)**HISTORY 300 CM Cluster Course: Mexico, Central America And The Human Condition**

Faculty from at least two different departments may determine the topic and syllabus, subject to approval of the Director of Integrated Studies and the program's advisory committee in addition to approval of the departments involved. This special topics course will satisfy the interdisciplinary course requirement for the B.A.

3 hrs[back to top](#)**HISTORY 300 D Special Studies****1-3 hrs**[back to top](#)**HISTORY 300 J Special Studies****1-3 hrs**[back to top](#)**HISTORY 300 K Special Studies History****1-3 hrs**[back to top](#)**HISTORY 300 L Special Studies****1-3 hrs**[back to top](#)**HISTORY 300 MC Special Studies****1-3 hrs**[back to top](#)**HISTORY 300 P Special Studies****1-3 hrs**[back to top](#)**HISTORY 300 R Special Studies****1-3 hrs**[back to top](#)**HISTORY 300 RA Special Studies****1-3 hrs**[back to top](#)

HISTORY 300 RB Special Studies

1-3 hrs

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HISTORY 300 RH Special Studies

1-3 hrs

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HISTORY 300 SS Special Studies

1-3 hrs

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HISTORY 300 W Special Studies History

1-3 hrs

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HISTORY 300 WY Decade of Dessent: 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 the these social and cultural movements.

3 hrs

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HISTORY 301 WI 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.

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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HISTORY 306 A 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

3 hrs

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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 ethno-cultural 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.

3 hrs

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HISTORY 307 A 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

3 hrs

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HISTORY 308 A 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.

3 hrs

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HISTORY 308 B 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.

3 hrs

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HISTORY 310 WI History Of Modern Computing

This is a writing-intensive introduction to the history of modern computing. After an introduction to historical writing, the course surveys the history of electronic computing, covering both technological changes and their social and economic context. Student efforts then will be focused on individual research leading to the writing of a paper on a topic in this field selected with the approval of the instructor. Students will carry out a series of written assignments in order to learn how to do historical research and to improve one's reading, writing, and analytical skills. Prerequisite: WEPT Restrictions: Must have passed the WEPT Offered: WS2004

3 hrs

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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-Africanism, Afrocentrism, and current political debates.

3 hrs

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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.

3 hrs

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HISTORY 353 Immigrants And Immigration In American History

This course surveys the effects of immigration on the social, intellectual and economic development of the United States. As well, it treats the fate of immigrant groups. Attention is given to the forces affecting assimilation, ethnic identity, mobility and discrimination. In some semesters particular emphasis is placed on one immigrant group, one time period, or the immigrant groups of Kansas City. Also offered as HISTORY 553.

3 hrs

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HISTORY 354 R 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.

3 hrs

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HISTORY 355 A Indians Of South America And The European Invasion

Origins and Latin America. Consideration of the origins of Indian culture throughout the entire Western hemisphere is followed by an analysis of the great Native American civilizations of Mexico, Central America and the Andes; Indian reactions to the Spanish and Portuguese invaders; and the present situation of Latin American Indians. Also offered as HISTORY 555A.

3 hrs

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HISTORY 355 BA Indians Of North America To 1789

The history of the native peoples of North America from their origins to the era of the American Revolution. Prerequisite: None. Offered: Fall.

3 hrs

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HISTORY 355 BB Indians Of North America Since 1789

The history of the native people of North America (Indians and Inuit) and their interaction with the European invaders since 1789. This course is the sequel to HISTORY 355BA, Indians of North America to 1789. Prerequisite: None. Offered: Winter.

3 hrs

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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.

3 hrs

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HISTORY 356 R 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.

3 hrs

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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.

3 hrs

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HISTORY 360 R 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.

3 hrs

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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.

3 hrs

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HISTORY 364 R 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.

3 hrs

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HISTORY 365 A 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.

3 hrs

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HISTORY 366 RR 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.

3 hrs

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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 manuals, laws, literature, cartoons, and toys as material culture. Semester offered: On demand

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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HISTORY 392 A 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

1-3 hrs

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HISTORY 392 B 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.

1-3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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HISTORY 3 ED Upper Level History Elective

Upper Level Transfer Credit

99 hrs

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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.

1-3 hrs

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HISTORY 400 B Special Studies

1-3 hrs

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HISTORY 400 C Special Studies

1-3 hrs

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HISTORY 400 CC Special Studies

3 hrs

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HISTORY 400 CF 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

3 hrs

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HISTORY 400 CI Cc:Culture,Kultur,Civilisation:Identity Formation In Middle Class

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 cinema-graphic sources. Offered: WS 2001

3 hrs

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HISTORY 400 CJ Special Studies

3 hrs

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HISTORY 400 CL Special Studies

1-3 hrs

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HISTORY 400 CM 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.

3 hrs

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HISTORY 400 CP 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.

3 hrs

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HISTORY 400 CR 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.

3 hrs

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HISTORY 400 CS Cluster Course:Clio&The Other Muses:Hist&Culture 5Th Cent Athens

3 hrs

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HISTORY 400 CW Cluster Course: Introduction To Women'S 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.

3 hrs

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HISTORY 400 CY 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.

3 hrs

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HISTORY 400 D Special Studies

1-3 hrs

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HISTORY 400 F Special Studies

1-3 hrs

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HISTORY 400 G Special Studies

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HISTORY 400 Special Studies

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HISTORY 400 J Special Studies

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HISTORY 400 K Special Studies

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HISTORY 400 Special Studies

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HISTORY 400 M Special Studies

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HISTORY 400 SS Special Studies

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HISTORY 400 T Special Studies

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HISTORY 400 W Special Studies

1-3 hrs

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HISTORY 400 WI Special Studies

1-3 hrs

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HISTORY 401 A 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

3 hrs

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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.

3 hrs

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HISTORY 411 A 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.

3 hrs

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HISTORY 411 B Medieval Civilization II

See HISTORY 400CF / HISTORY 500CF for course description. Also offered as HISTORY 512.

3 hrs

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HISTORY 412 A 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.

3 hrs

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HISTORY 412 B 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

3 hrs

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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 offered as HISTORY 513.

3 hrs

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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.

3 hrs

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HISTORY 415 B 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.

3 hrs

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HISTORY 416 R 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.

3 hrs

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HISTORY 417 R 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 5517.

3 hrs

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HISTORY 418 R 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 5518.

3 hrs

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HISTORY 419 R 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 5519.

3 hrs

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HISTORY 420 CC 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 placed 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 Comm-St 404CD

3 hrs

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HISTORY 424 A Colonial And Post Colonial South Asia

South Asian historians have very effectively applied many new approaches to the studies of the past to modern Indian and Sri Lankan history. This course examines topics and debates in this literature as they bear on the methods and practices of the historian. The topics to be investigated include the nature of colonial rule, the nation-state, and ethnicity. Students will be introduced to issues of methodology, periodization and explanation posed by the relationship between colonial and post-colonial South Asia. The case studies will be drawn from twentieth century India and Sri Lanka, but the topics are of relevance to students of other regions and disciplines. Prerequisites: None. Offered. Fall.

3 hrs

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HISTORY 424 R 20Th Century Asia

A survey of the major states of Asia from the beginning of the century to the present, focusing on resistance to Western imperialism, national independence and problems of economic and social change. Also offered as HISTORY 524.

3 hrs

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HISTORY 425 R 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.

3 hrs

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HISTORY 426 R 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.

3 hrs

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HISTORY 427 R 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.

3 hrs

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HISTORY 428 A 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

3 hrs

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HISTORY 428 B 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

3 hrs

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HISTORY 430 RA '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.

3 hrs

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HISTORY 431 R 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.

3 hrs

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HISTORY 432 R 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.

3 hrs

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HISTORY 433 R 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.

3 hrs

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HISTORY 434 R 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.

3 hrs

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HISTORY 436 R 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 HISTORY 435 / HISTORY 535: the contents and assignments will be coordinated, but the former course is not a prerequisite for the latter.

3 hrs

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HISTORY 437 AWI 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

3 hrs

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HISTORY 437 BWI 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 assignment 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

3 hrs

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HISTORY 437 CWI 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 roles 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

3 hrs

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HISTORY 437 DWI 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

3 hrs

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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.

3 hrs

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HISTORY 446 R 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.

3 hrs

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HISTORY 462 J 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.

3 hrs

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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 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. Prerequisite: First Year Latin or permission from instructor. Offered: On Demand

3 hrs

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HISTORY 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.

3 hrs

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HISTORY 468 R 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.

3 hrs

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HISTORY 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 offered as HISTORY 569R.

3 hrs

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HISTORY 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 offered as HISTORY 570R.

3 hrs

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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.

3 hrs

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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.

3 hrs

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HISTORY 473 History Of Astronomy

The course will examine how and why our views of the planets, the stars, and the universe have changed from Babylonian and Greek times to the 20th century. The course will consider such topics as ancient earth-centered cosmologies, the origin of astrology, the development and acceptance of the Copernican cosmology, the contributions of Newton, Galileo, Kepler and others to uncovering the laws of heavenly bodies, the gradually successful attempts to determine the distances to and composition of the stars, various interpretations of the Milky Way, and the eventual discovery of galaxies beyond our own, as well as touching on such other matters as early views of comets and "new" stars, the development of the telescope, the impact of photography, and early speculations on extraterrestrial life. Also offered as HISTORY 573R .

3 hrs

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HISTORY 475 WI 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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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HISTORY 497 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.

1-6 hrs

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HISTORY 497 A 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.

1-6 hrs

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HISTORY 498 WI Senior Capstone

This is the capstone course in the department and is required for majors in the senior year. It consists of tutorial sessions with a regular faculty member and independent research leading to a major paper using original source materials. Performance in this course will weigh heavily in the award of departmental honors. Prerequisites: HISTORY 301 and successful completion of the WEPT.

3 hrs

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HISTORY H201 Honors: Western Civilization To 1600

3 hrs

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HISTORY H201 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.

3 hrs

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HISTORY H202 Honors: Western Civilization Since 1600

3 hrs

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HISTORY H208 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.

3 hrs

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HISTORY H444 R 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.

3 hrs

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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.

5 hrs

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ITALIAN 120 Elementary Italian II

Continuation of ITALIAN 110. Winter. Prerequisite(s): ITALIAN 110 or equivalent.

5 hrs

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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.

3 hrs

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ITALIAN 221 Second Year Italian II

Continuation of ITALIAN 211. Winter.

3 hrs

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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.

2-4 hrs

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ITALIAN 290 Special Intermediate Italian Topics II

Continuation of ITALIAN 280. May not be repeated for credit. As needed.

2-4 hrs

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Latin

LATIN 110 Elementary Latin I

Fundamentals of grammar and syntax; selected passages from various Latin authors concluding with readings from Caesar. Every fall.

5 hrs

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LATIN 120 Elementary Latin II

Continuation of LATIN 110. Every Winter. Prerequisite(s): LATIN 110 or equivalent.

5 hrs

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LATIN 211 Second Year Latin Readings I

Selected readings from works by various Latin authors. Grammar review. Prerequisite: LATIN120. Fall.

3 hrs

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LATIN 221 Second Year Latin Readings II

Continuation of LATIN 211. Winter.

3 hrs

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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.

2-4 hrs

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LATIN 280 A 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.

2-4 hrs

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LATIN 290 Special Intermediate Latin Topics II

Continuation of LATIN 280. May not be repeated for credit. As needed.

2-4 hrs

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LATIN 290 A Special Intermediate Latin Topics II

Continuation of LATIN 280. May not be repeated for credit. As needed.

2-4 hrs

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LATIN 301 Virgil

Selected readings in Classical Latin from the works of Virgil. Prerequisite: LATIN 211 or consent from the instructor.

3 hrs

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LATIN 302 Ovid

Selected readings in Classical Latin from Ovid's Metamorphoses. Prerequisite: LATIN 211 or consent from the instructor.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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Mathematics

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. Fall, Winter,

3 hrs

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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

3 hrs

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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. Fall, winter, summer.

3 hrs

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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). Offered: Fall, Winter

3 hrs

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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. Fall, Winter, Summer.

5 hrs

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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. Fall, winter, summer.

2 hrs

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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. Offered: Fall, Winter, Summer

3 hrs

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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. Fall/Winter

3 hrs

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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. Offered: Fall, Winter.

3 hrs

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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. Offered: On demand

3 hrs

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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. Offered: Fall, winter, summer.

3 hrs

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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 Offered: Every semester

3 hrs

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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. Offered: Fall, Winter, and Summer

4 hrs

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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 Offered: Fall/Winter

3 hrs

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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. Fall, Winter, Summer.

4 hrs

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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. Offered: Fall/Winter

3 hrs

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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. Offered: Winter

3 hrs

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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. Fall, Winter, Summer

4 hrs

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MATH 300 Linear Algebra I

Vectors, matrices, linear equations, matrix algebra, determinants, vector spaces, linear transformations, vector spaces with an inner product. Prerequisite: MATH 250, or consent of instructor Offered: Fall, Winter

3 hrs

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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

3 hrs

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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. Fall, winter, summer.

4 hrs

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MATH 400 Introduction To Number Theory

Congruences and residue classes. The theorems of Euler and Fermat. Primitive roots and indices. Quadratic residues. The Legendre and Jacobi symbols, the law of quadratic reciprocity. Number theoretic functions: the Euler phi-function, the Moebius inversion formula. Quadratic forms. The approximation of irrationals by rationals. Prerequisite: MATH 301

3 hrs

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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

3 hrs

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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. Offered: Winter.

3 hrs

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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 Offered: Fall

3 hrs

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MATH 410 Modern Algebra

Groups, rings, integral domains, fields and polynomial rings. Prerequisite: MATH 300 and MATH 301.

3 hrs

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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 Offered: Winter

3 hrs

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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 220, MATH 301, and one of MATH 402 or MATH 410 Offered: Winter

3 hrs

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MATH 420 Linear Algebra II

Vector spaces and linear transformations, eigenvalues and eigenvectors, vector spaces with an inner product, orthogonality, least squares approximation, quadratic forms singular value decomposition, the theory of determinants. Prerequisite: MATH 300 Offered: Winter

3 hrs

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MATH 424 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. Prerequisite: MATH 220, MATH 301, and one of MATH 402 or MATH 410 Offered: Fall or Winter as needed

3 hrs

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MATH 430 Numerical Analysis I

Error analysis, solutions of equations of one variable, interpolation and polynomial approximation, numerical integration and differentiation, numerical solutions of initial-value problems. Prerequisite: MATH 250

3 hrs

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MATH 440 Numerical Analysis II

Direct and iterative methods for solving linear systems, introduction to approximation theory, approximating eigenvalues and eigenvectors, solution of systems of nonlinear equations. Prerequisites: MATH 300 and MATH 430, or consent of instructor Offered: Winter

3 hrs

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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

3 hrs

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MATH 464 WI 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 300 or MATH 301. MATH 301 is recommended.

3 hrs

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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.

1-3 hrs

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Military Science

MIL-SCI 100 Introduction To Military Operations

Introduction into the areas of: leadership, role of the Army (to include the citizen soldier concept), organization of the Army, U.S. Constitution, customs and traditions of the service, and the role of the officer and NCO. Offered: Fall/Winter.

1 hr

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MIL-SCI 105 Introduction To Survival Skills And Rappelling

Techniques for survival: Direction finding, basic land navigation, primitive fire starting, water purification. Basic rappelling and rope bridging, knot tying and rope management. All College of Arts and Sciences students who complete this course can receive physical education credit. Offered: Fall/Winter.

1 hr

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MIL-SCI 201 Introduction To Military Leadership And Communication

Introduces students to duties of an officer, providing an overview of the unique purpose, roles and obligation of commissioned officers. It includes a detailed look at the origin of our institutional values and their practical application. Prerequisite: None Offered: None Restrictions: None

2 hrs

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MIL-SCI 202 Military Leadership & Communication II

This course focuses principally on officership, providing an extensive examination of the unique purpose, roles and obligations of commissioned officers. It provides an introduction to tactics and a detailed look at the origin of our institutional values and their practical application. Prerequisite: None Offered: Winter Restrictions: None

2 hrs

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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.

3 hrs

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MIL-SCI 210 Map Reading And Land Navigation

Introduction to map reading, terrain analysis, orienteering and day/night land navigation techniques and considerations. Includes several practical exercises in which students navigate with the use of a compass and terrain association.

Prerequisite: None. Offered: Winter.

1 hr

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MIL-SCI 220 Urban And Field Survival Skills

Psychology of survival, preparedness; emergency water, food and shelter; fire starting; direction finding, water survival, Biological Terrorism and selected First Aid topics. All College of Arts and Sciences students who complete this course can receive physical education credit. Offered: Winter

1 hr

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MIL-SCI 300 Leadership And Management I

Investigates organizational leadership styles, effective managerial and leadership traits, and military ethics; includes a review of the military correspondence formats and writing techniques. Prerequisite: Advanced placement by ROTC instructor. Offered: Fall.

3 hrs

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MIL-SCI 310 Small Unit Leadership And Tactics

Study of electronic communications and techniques. Advanced study is conducted in the areas of land navigation, branches and functions of the U.S. Army and selected military skills. Emphasis is placed upon preparation for advanced camp.

Prerequisite: Advanced placement by ROTC instructor. Offered: Winter.

3 hrs

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MIL-SCI 400 Leadership And Management II

Discussion and application of the principles of military organization and management. Includes the comprehensive study of executive decision making and communication and the Army Training Management System. Prerequisites: Completion of MIL-SCI 300 and MIL-SCI 310. Offered: Fall.

3 hrs

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MIL-SCI 410 Army Management And Organizational Systems

Study of the Army Personnel Management System, the Uniform Code of Military Justice and the Army legal system; and selected topics in leadership management and decision making. Prerequisites: Completion of MIL-SCI 300 and MIL-SCI 310 or consent of the department chairperson. Offered: Winter.

3 hrs

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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.

1-3 hrs

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PACE - American Studies

AMER-ST 301 P 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.

P

4 hrs

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AMER-ST 302 P 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.

P

4 hrs

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AMER-ST 303 PW 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.

P

4 hrs

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AMER-ST 340 P 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

P

4 hrs

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AMER-ST 340 PP 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.

P

4 hrs

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AMER-ST 341 P 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.

P

4 hrs

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AMER-ST 342 P American Material Culture: Museums

This course will focus on local institutions that use material culture in their presentation of history and the American experience.

P

4 hrs

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AMER-ST 410 P 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.

P

3 hrs

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AMER-ST 411 P The American Conception Of Evil: Readings In Primary Sources

This interdisciplinary course is a companion to AMER-ST 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.

P

3 hrs

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PACE - Art and Art History

ART 101 P Topical Studies

P

3 hrs

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PACE - Arts and Sciences

A&S 170 Special Topics

An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

P

1-4 hrs

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A&S 170 C Special Topics

An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

P

1-4 hrs

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A&S 280 A Special Topics

An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

P

1-4 hrs

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A&S 280 P Special Topics

An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

P

1-4 hrs

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A&S 365 P 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

P

3 hrs

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A&S 400 A Special Readings/Topics

B

1-6 hrs

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A&S 400 D Special Readings/Topics

B

1-6 hrs

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A&S 400 F Special Readings/Topics

B

1-6 hrs

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A&S 400 G Special Readings/Topics

B

1-3 hrs

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A&S 400 I Special Topics

P

1-6 hrs

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A&S 400 K Special Readings/Topics

P

1-3 hrs

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A&S 400 RR Special Readings/Topics

P

1-3 hrs

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A&S 400 SS Special Readings/Topics

P

1-3 hrs

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PACE - Chemistry

CHEM 180 P 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.

P

4 hrs

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CHEM 181 P Experimental Basic Chemistry

A demonstration/laboratory course designed to support and illustrate the concepts presented in CHEM 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.

P

4 hrs

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CHEM 182 P 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.

P

4 hrs

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PACE - Communication and Information Technology

CIT 105 P 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.

P

4 hrs

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CIT 106 P 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.

P

4 hrs

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CIT 310 P 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.

P

3 hrs

[back to top](#)

CIT 315 P 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.

P

3 hrs

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CIT 420 P 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.

P

3 hrs

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PACE - Communication Studies

COMM-ST 254 P 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.

P

4 hrs

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COMM-ST 260 P 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.

P

4 hrs

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COMM-ST 345 P 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.

P

3 hrs

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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.

B

3 hrs

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COMM-ST 421 P 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.

P

3 hrs

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COMM-ST 422 P 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.

P

3 hrs

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COMM-ST 423 P 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.

P

3 hrs

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COMM-ST 424 P 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.

P

3 hrs

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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.

P

3 hrs

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PACE - Criminal Justice and Criminology

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.

P

3 hrs

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CJC 475 P White Collar Crime

This course examines activities variously called white-collar crimes, crimes of privilege, corporate and government crimes, and underworld 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.

P

3 hrs

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PACE - Economics

ECON 201 P 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. ECON 201 and 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every semester.

P

3 hrs

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ECON 202 P 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.

P

3 hrs

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ECON 204 P 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.

P

5 hrs

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ECON 301 P 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.

P

3 hrs

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ECON 302 P 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.

P

3 hrs

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ECON 331 P 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.

P

3 hrs

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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.

B

3 hrs

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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.

P

3 hrs

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ECON 397 CP Current Macroeconomic Issues

This is an independent studies course which addresses such macroeconomic issues as causes and remedies of inflation, recession and economic growth. This course is part of a Macro Pace Block. Prerequisites: ECON 201, ECON 202. Offered: Winter, odd years.

P

3 hrs

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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.

B

3 hrs

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PACE - English

ENGLISH 352 P 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.

P

4 hrs

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ENGLISH 353 PW Critical Review & Evaluation Of Fiction & Film(Writing Intensive)

The weekend component of this block meets one weekend per month for a total of 70 contact hours. The goal of the course is to improve students' writing skills along with their ability to read and analyze texts, both literary and cinematic. During the course students will read four novels and a set of critical essays, one for each weekend, which will be followed by viewing and discussing a film adaptation of the novel in class. Various critical approaches will be included in the reading and will be discussed in class in an effort to enable students to apply these critical principles in their own critical essays. Because the class meets only one weekend per month and a process approach to writing is utilized, students will be encouraged to use the facilities of the internet to share drafts of their essays with their peer revision group members and with the instructors during the weeks between class meetings. Students will bring revised drafts of their work to the weekend meeting where a significant amount of class time will be spent in writing workshops. Students will be assessed on the basis of their portfolios of critical writing consisting of four major essays and an extensive cover letter, their reading/viewing journals, and their participation, both in class and in peer response groups. Prerequisites: WEPT. Offered: 1 weekend/month for 4 months.

P

4 hrs

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ENGLISH 354 P 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.

P

4 hrs

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ENGLISH 460 PW Written Discourse: Speaking, Writing, Composing

Prerequisite: Successful completion of the WEPT (effective FS93).

P

4 hrs

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PACE - History

HISTORY 102 P 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. Offered: Fall, winter, summer.

P

3 hrs

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HISTORY 330 PW 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).

B

4 hrs

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HISTORY 331 P 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.

B

4 hrs

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HISTORY 332 P The City: Past And Present

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.

B

4 hrs

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HISTORY 400 Z Special Studies

B

1-3 hrs

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HISTORY 470 P 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.

P

4 hrs

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HISTORY 471 P 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.

P

4 hrs

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HISTORY 472 P 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.

P

4 hrs

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PACE - Humanities

HMNTY 104 P 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.

P

4 hrs

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HMNTY 105 P 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.

P

4 hrs

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HMNTY 106 P 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.

P

4 hrs

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HMNTY 201 P The Many Lives Of Dr. Faust

This course will involve the development, impact and artistic forms of "The Lives of Dr. Faust," a major legend in Western Culture. 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.

P

4 hrs

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HMNTY 202 P 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.

P

4 hrs

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HMNTY 203 P 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 HMNTY 202P. Offered: Winter.

P

4 hrs

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HMNTY 320 P 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.

P

4 hrs

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HMNTY 340 PW 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).

P

4 hrs

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HMNTY 375 P 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.

P

4 hrs

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HMNTY 376 P Textural 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.

P

4 hrs

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HMNTY 377 P 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.

P

4 hrs

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HMNTY 401 PW 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).

P

4 hrs

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HMNTY 404 PW 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).

P

4 hrs

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HMNTY 408 P 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 Study portion of the block.

P

1 hr

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HMNTY 410 PW 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).

P

4 hrs

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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.

P

4 hrs

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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.

P

4 hrs

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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.

P

4 hrs

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HMNTY 490 P 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.

P

4 hrs

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PACE - Integrated Studies

INT-DISC 201 P 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.

P

4 hrs

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INT-DISC 202 P 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 IINT-DISC 201P and INT-DISC 203P.

P

4 hrs

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INT-DISC 203 P 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.

P

4 hrs

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INT-DISC 204 P 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.

P

4 hrs

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INT-DISC 205 P 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.

P

4 hrs

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INT-DISC 206 P 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.

P

4 hrs

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INT-DISC 308 P Introduction To Physical Anthropology

Study of the basic concepts, methods, and research areas in physical anthropology. Topics include: scientific methods, forces of evolution, dating methods, archaeological techniques, primate characteristics and behavior, and the tracing of primate and human evolution through skeletal material and artifacts. The evolutionary and adaptive forces resulting in human physical diversity and the underlying physical unity of all humans will be addressed.

P

4 hrs

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INT-DISC 310 P 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.

P

4 hrs

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INT-DISC 350 P Interdisciplinary Perspectives On Aging: Readings And Film

This course within the PACE block provides the student an opportunity to pursue special areas of interest in gerontology which will be only parenthetically covered or omitted altogether from the other courses in the block. Furthermore it challenges the student to become acquainted with and develop his/her independent study and research skills by means of addressing issues in the field which are of special interest to him/her and relevant to the field.

P

4 hrs

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INT-DISC 380 P 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

P

4 hrs

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INT-DISC 381 P 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

P

4 hrs

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INT-DISC 382 P 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

P

4 hrs

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INT-DISC 401 P 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.

P

4 hrs

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INT-DISC 402 P 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.

P

4 hrs

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INT-DISC 403 P 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.

P

4 hrs

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INT-DISC 420 P 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

P

4 hrs

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INT-DISC 482 P 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.

P

4 hrs

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INT-DISC 483 P 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.

P

4 hrs

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PACE - Interdisciplinary Studies

INTGR 401 P 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.

P

4 hrs

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INTGR 402 P 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.

P

4 hrs

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INTGR 403 P 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.

P

4 hrs

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INTGR 425 P 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

P

1 hr

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INTGR 430 P 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

P

8 hrs

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PACE - Natural Science

NAT-SCI 101 P 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.

P

4 hrs

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NAT-SCI 102 P 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.

P

4 hrs

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NAT-SCI 103 P 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.

P

4 hrs

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NAT-SCI 308 P 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.

P

4 hrs

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NAT-SCI 375 P 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.

P

4 hrs

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NAT-SCI 425 P 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

P

3 hrs

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NAT-SCI 430 PC 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.

P

3 hrs

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PACE - Philosophy

PHILOS 401 PC 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.

B

3 hrs

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PACE - Physical Science

PHY-SCI 301 P 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.

P

4 hrs

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PHY-SCI 302 P Concepts Of Chemistry, Earth Sciences And Astronomy

Basic principles of chemistry, earth sciences and astronomy with special emphasis on the earth and its environment.

P

4 hrs

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PHY-SCI 303 P Applications Of Physical Science

Laboratory exercise, field experiences, tutorial-type seminars and recitation in elementary chemistry, earth science and astronomy.

P

4 hrs

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PACE - Political Science

POL-SCI 347 P 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.

P

3 hrs

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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.

P

4 hrs

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POL-SCI 406 P 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.

B

4 hrs

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POL-SCI 407 P 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.

P

4 hrs

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POL-SCI 409 P 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.

B

4 hrs

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POL-SCI 435 P 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.

P

4 hrs

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PACE - Psychology

PSYCH 270 P 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.

P

3 hrs

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PSYCH 407 P 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.

B

4 hrs

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PSYCH 490 P 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.

P

4 hrs

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PACE - Social Science

SOC-SCI 210 P 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.

P

3 hrs

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SOC-SCI 305 P 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.

P

1 hr

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SOC-SCI 355 P 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.

P

4 hrs

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SOC-SCI 359 P 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.

P

4 hrs

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SOC-SCI 364 PW 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.

P

3 hrs

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SOC-SCI 375 P 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.

P

4 hrs

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SOC-SCI 395 B The Economics Of The Law

See ECON 395B. Prerequisites: ECON 201 and ECON 202. Offered: Fall.

P

1 hr

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SOC-SCI 395 C Economics Of Energy

See ECON 395C. Offered: Fall.

P

1 hr

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SOC-SCI 395 G Economics Of Poverty

See ECON 395G. Offered: Fall.

P

1 hr

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SOC-SCI 397 A 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.

P

1 hr

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SOC-SCI 397 B 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.

P

1 hr

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SOC-SCI 403 P 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

P

4 hrs

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SOC-SCI 411 P 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.

P

4 hrs

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SOC-SCI 438 P Labor History & Economic Policy

Analysis of the confluence of political and economic behavior the economics of collective action. Prerequisites: ECON 301 and ECON 302.

P

3 hrs

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SOC-SCI 456 P 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.

P

4 hrs

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SOC-SCI 457 P 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.

P

4 hrs

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SOC-SCI 458 P 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

P

4 hrs

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SOC-SCI 465 P 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.

P

4 hrs

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SOC-SCI 489 P 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.

P

4 hrs

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SOC-SCI 490 C Readings In Labor Economics

See ECON 490C. Prerequisites: ECON 201 and ECON 202. Offered: Winter.

P

1 hr

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PACE - Sociology

SOCIOL 381 P 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.

P

4 hrs

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Philosophy (PHILOS)

PHILOS 210 Foundations Of Philosophy

An introduction to the principal problems with which philosophy is concerned: methods of inquiry; rules of correct reasoning; analysis of values and value systems; appraisals of basic beliefs and attitudes. Emphasis is on the contribution of important movements and major philosophers and on the relevance of philosophy to religious, political, social, and scientific issues. Prerequisite: Sophomore standing or consent of the instructor.

3 hrs

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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.

3 hrs

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PHILOS 222 Foundations Of Logic And Scientific Method

An introduction to the logic of evidence. Attention is given to language analysis, fallacies of reasoning, deductive and inductive procedures, subjective factors of reasoning and scientific method. Emphasis is on the practical application of basic principles to the analysis of ethical, economic, political, and scientific physical arguments and theories. Prerequisite: Sophomore standing or consent of the instructor.

3 hrs

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PHILOS 300 CK 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.

3 hrs

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PHILOS 310 WI 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 222 or an equivalent and successful completion of the WEPT Offered: Fall.

3 hrs

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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.

3 hrs

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PHILOS 320 WI Descartes To Hume

A survey of the central figures of modern philosophy: Rene Descartes, Baruch Spinoza, Gottfried Leibniz, 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.

3 hrs

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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.

3 hrs

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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, Dostoevsky, 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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PHILOS 344 Philosophy of Sport

This course uses sports as a point of departure to explore central philosophical themes in metaphysic/epistemology, aesthetics, ethics, and social/political philosophy. Students will explore the concept and role of sports in society from ancient Greece to modern times.

3 hrs

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PHILOS 346 Metaphysics and Epistemology

this course is an advanced overview of some central themes in metaphysics nad 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: PHILOS 222 or consent of the instructor.

3 hrs

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PHILOS 350 Case Studies In The Methodologies Of Science

Topics in the methodology of science are considered through an examination of case studies in the history of science. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

3 hrs

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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.

3 hrs

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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

3 hrs

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PHILOS 400 Interdisciplinary Studies: Cluster Course Offerings

3 hrs

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PHILOS 400 CJ 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.

3 hrs

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PHILOS 400 CO 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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PHILOS 435 R 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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PHILOS 450 WI 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.

3 hrs

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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.

1-3 hrs

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PHILOS 480 A Selected Topics

1-3 hrs

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PHILOS 480 B Selected Topics

1-3 hrs

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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: PHILOS 222, 310, 320, 321 or 423.

1-3 hrs

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PHILOS 490 B 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: PHILOS 222, 310, 320, 321 or 423.

1-3 hrs

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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.

3 hrs

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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.

3 hrs

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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. Offered: Every Winter.

3 hrs

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PHYSICS 140 L 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 PHYSICS 140 lecture and must be taken concurrently with the lecture. Offered: Every Winter. Restrictions: Concurrent with PHYSICS 140

1 hr

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PHYSICS 150 Introduction To Astronomy

A survey of modern topics in astronomy covering cosmological origins, galaxy formation, stellar structure and generation of the chemical elements found in planetary systems. Exotic objects such as supernovae, white dwarves, black holes, neutron stars and quasars will be introduced as indicators of large-scale, energetic astronomical processes. This course will meet the area requirement for the natural sciences. Prerequisite(s): College Algebra or Equivalent.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 Winter.

4 hrs

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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 Winter

4 hrs

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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 Winter

5 hrs

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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 Winter.

5 hrs

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PHYSICS 260 Introduction To Stellar Astronomy

An introduction to such topics as the properties of stars, their evolution, galaxies, nebulae, quasars and cosmology. Offered: Fall-Odd Years.

3 hrs

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PHYSICS 265 L 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.

2 hrs

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PHYSICS 270 Introduction To Solar System Astronomy

A non-mathematical introduction to the astronomy of the solar system including the properties of the sun, planets and their satellites. Offered: On Demand.

3 hrs

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PHYSICS 280 A Survey Of Astronomy

A one semester non laboratory science course intended for non-science majors which will cover the early history of Greek astronomy, the advances of the Renaissance, the physics of astronomy, the structure of the universe both our local solar system and on a galactic scale, and current development in the dynamic field of astronomy. Offered: On Demand.

4 hrs

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PHYSICS 301 A 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.

1 hr

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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.

3 hrs

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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: Winter.

3 hrs

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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

3 hrs

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PHYSICS 350 Modern Physics With Engineering Applications

An introduction to quantum and relativistic effects with applications in solid state, atomic and nuclear physics and in engineering problems. Prerequisites: MATH 345 and PHYSICS 240 PHYSICS 250. Offered: Winter Semester.

3 hrs

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PHYSICS 380 Modern Developments In Physics I

4 hrs

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PHYSICS 381 Modern Developments In Physics II

4 hrs

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PHYSICS 385 L Elementary Circuits Laboratory

An introduction to analog and digital electronics. The topics covered include passive filters, operational amplifier applications, digital logic, and digital timing circuits. Prerequisites: Must be taking or have completed six hours of Physics courses numbered 300 or above.

3 hrs

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PHYSICS 395 L 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 data. The programming techniques are taught using high level programming languages currently used in research and development labs. Prerequisite: PHYSICS 385L Offered: Fall Even Years.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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PHYSICS 425 LW 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).

3 hrs

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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

3 hrs

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PHYSICS 445 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.

3 hrs

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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: Fall-Even Years.

3 hrs

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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: Fall.

3 hrs

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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.

3 hrs

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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: Winter.

3 hrs

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PHYSICS 475 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.

3 hrs

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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.

3 hrs

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PHYSICS 481 Electron Microscopy II

Graduate student research applications of electron microscopy to special projects are emphasized. Prerequisite: PHYSICS 480. Offered: On Demand.

3 hrs

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PHYSICS 482 X-Ray Analysis:Theory And Practice

The physics of x-rays, methods of their detection, crystallography, x-ray diffraction, x-ray spectrometry, and sample preparation. Emphasis on laboratory techniques and the use of x-ray analysis as an analytical tool. Two hours lecture and two hours laboratory per week. Prerequisites: Consent of the instructor and senior departmental standing. Offered: On Demand.

3 hrs

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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.

1-3 hrs

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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.

1-3 hrs

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Physical Science

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.*

4 hrs

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PHY-SCI 110 L Foundations Of Physical Sciences, Laboratory I

General laboratory and discussion sessions on various topics in the physical and mathematical sciences.

1 hr

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PHY-SCI 410 Selected Topics In Contemporary Science

3 hrs

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PHY-SCI 410 P Selected Topics In Contemporary Science

3 hrs

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PHY-SCI 410 PF Selected Topics In Contemporary Science

3 hrs

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PHY-SCI 435 P Selected Topics In The History Of Science

3 hrs

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PHY-SCI 435 PF Selected Topics In The History Of Science

3 hrs

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Political Science

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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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POL-SCI 300 CS Cluster Course: History Of Russian Culture

3 hrs

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POL-SCI 301 Western Political Philosophy

An examination of the major theories of politics from Plato to today.

3 hrs

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POL-SCI 302 Political Research And Analysis

The Internet and CD-Rom have opened up many sources of political information, and the computer facilitates the running of political simulations. The computer also makes it possible for many to use and to understand basic statistical techniques for the first time. In this course we will explore these and other techniques of political research and analysis. Prerequisites: None.

3 hrs

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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

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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POL-SCI 312 Mass Media And American Politics

An examination of the role of mass media in American electoral and policy processes.

3 hrs

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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POL-SCI 326 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

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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POL-SCI 344 Jurisprudence

An examination of theories of law from the viewpoint of political science.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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POL-SCI 354 Politics In Russia

A study of domestic and international politics in Russia, emphasizing the post-Soviet period.

3 hrs

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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 culture.

3 hrs

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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 .

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

1-6 hrs

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POL-SCI 380 A Political Science And Politics

1-6 hrs

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POL-SCI 380 B Political Science And Politics

1-6 hrs

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POL-SCI 380 C Political Science And Politics

1-6 hrs

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POL-SCI 380 D Political Science And Politics

1-6 hrs

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POL-SCI 380 Political Science And Politics

1-6 hrs

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POL-SCI 380 X Political Science And Politics

1-6 hrs

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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

1 hr

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POL-SCI 403 Political Ideology

A critical examination of contemporary political ideologies including democratic and authoritarian theories.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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POL-SCI 429 Courts And Public Policy

An analysis of how courts influence policy in selected political arenas.

3 hrs

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POL-SCI 432 National Security Policy

An examination of national security policy as an organizational and intellectual response to changes in technology and international conflict.

3 hrs

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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.

3 hrs

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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.

3 hrs

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POL-SCI 440 Contemporary Political Thought

Political philosophy from Nietzsche to today.

3 hrs

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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.

3 hrs

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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.

3 hrs

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POL-SCI 450 WI 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 implication of legislation regarding ethics in the executive branch. Prerequisite: Successful completion of the WEPT.

3 hrs

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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"

3 hrs

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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.

1-6 hrs

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POL-SCI 480 F Government And Politics

1-6 hrs

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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.

3 hrs

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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.

1-6 hrs

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POL-SCI 492 WI 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.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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POL-SCI H220 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.

3 hrs

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POL-SCI H318 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.

3 hrs

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Psychology

PSYCH 210 General Psychology

Psychological principles and methods. Prerequisite to all other courses in psychology except with consent of the instructor. Each semester.

3 hrs

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PSYCH 211 P Applied Psychology

As a science psychology seeks to understand the mind. This course discusses the major applications of this understanding to human problems and behavior. Applications of psychology to law, business and industry, mental health, medicine, education and the general community will be discussed.

3 hrs

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PSYCH 215 Meditation, Self-Hypnosis, And Biofeedback

This course provides a relatively nonTechnical introduction to current information on meditation, self-hypnosis, biofeedback, and related methods. It also provides practical guidance in the safe use of these procedures. This course will be oriented toward teaching the safe, personal use of available methods rather than toward the training of professionals. On demand.

3 hrs

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PSYCH 300 Industrial Psychology

General course dealing with the psychology of the work environment. Included will be work rating techniques, job descriptions, selection and placement of workers, prediction of job success, supervisory and management training programs, individual interacting with others, human relations, job morale, individual satisfaction, and the structure of organizations. Prerequisite: PSYCH 210.

3 hrs

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PSYCH 300 CS 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 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. Prerequisite: PSYCH 210.

3 hrs

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PSYCH 300 CT Cluster Course: Healing And Cultural Diversity

3 hrs

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PSYCH 302 WI 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. Offered: Each semester.

4 hrs

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PSYCH 303 WI Psychological Writing

Psychological Writing satisfies the Writing-Intensive (WI) College of Arts and Sciences requirement. Writing skills in the psychological sciences will be emphasized. Students will receive instruction and intensive practice in writing the several components of experimental psychological reports. Prerequisite: Successful completion of the WEPT exam.

3 hrs

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PSYCH 304 Learning

Survey course of the fundamental principles of contemporary theories of learning. Prerequisite: PSYCH 210

3 hrs

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PSYCH 305 Psychology Of Women

This course will be devoted to a critical examination of studies of the psychology and behavior of women. Special topics for consideration will be (1) the sex role development of females; (2) female biology and endocrinology; (3) learning and cognitive functioning of the female; (4) female achievement in educational and occupational settings; (5) female sexual behavior; (6) the psychotherapeutic treatment of women. Prerequisite: PSYCH 210.

3 hrs

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PSYCH 308 Sensation And Perception

The experimental study of how we perceive the world through our senses. Lectures, readings, and demonstrations cover the anatomy and function of the sense organs as well as 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

3 hrs

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PSYCH 310 Theories Of Aggression

The two major theoretical approaches relative to explaining aggression, ethological and psychological, will be presented and contrasted. The adequacy of these approaches in explaining assaultive and criminal forms of human behavior will be examined. Specific topics may include child and spouse abuse, murder, delinquency, riots, territoriality, "catharsis" in sports, television and violence and others. Prerequisite: PSYCH 210.

3 hrs

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PSYCH 311 Applied Psychology

This course discusses the major applications of scientific psychology to human problems and behavior. Applications of psychology to law, business and industry, mental health, medicine, education and the general community will be discussed. May not be taken for graduate credit. Prerequisite(S): PSYCH 210. Semester Offered: on demand.

3 hrs

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PSYCH 312 Social Psychology

Lecture course in theories and methods of social psychology. Topics include attitudes, attitude change, leadership, conformity, person perception, cooperation and competition, racial and social class differences. May not be taken for graduate credit. Prerequisite(s): PSYCH 210. Offered: Each semester.

3 hrs

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PSYCH 316 Quantitative Methods In Psychology

Correlation analysis, testing of hypotheses, and other techniques for evaluation of experimental designs and quantitative data. May not be taken for graduate credit. Prerequisite(s): PSYCH 210, MATH 116 or MATH 110. Offered: Each semester.

3 hrs

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PSYCH 320 Ethnic And Minority Perspectives In Psychology

Critical examination of 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 the interests and needs of psychology. Prerequisite: PSYCH 210. On demand.

3 hrs

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PSYCH 322 Child Psychology

The relations between child's biological and social conditions of personality; problems concerning the familial role and the guidance of the child's social adaptation. May not be taken for graduate credit. Prerequisite(s): PSYCH 210. Offered: Each semester.

3 hrs

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PSYCH 322 P Child Psychology

The relations between child's biological and social conditions of personality; problems concerning the familial role and the guidance of the child's social adaptation. May not be taken for graduate credit. Prerequisite(s): PSYCH 210. Offered: Each semester.

3 hrs

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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.

3 hrs

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PSYCH 326 Alternate Sexual Lifestyles & Contemporary Issues Human Sexuality

One objective of this course will be to examine the psychological determinants that lead to the development of nontraditional relationships and the psychological effects on the participants. A second objective of this course will be to examine contemporary issues bearing on the sexual practices of wide segments of the community. Such factors as pornography and the roles played by the law, church and school as they pertain to the development of attitudes and on alternate sexual lifestyles. Prerequisite: PSYCH 210.

3 hrs

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PSYCH 328 Psychology Of Human Sexual Behavior

The focus of this course will be on the psychological factors surrounding human sexuality. This will include discussions about some myths and fallacies surrounding sexual education, correction of sexual misinformation, and relationship of attitudes to various sexual mores and practices. Although personal counseling is not included in the course, students will be informed of community resources available for consultation. An analysis of local community standards used to evaluate sexual behavior will include input from professional representatives of the community such as lawyers, physicians and the clergy. Prerequisite: PSYCH 210.

3 hrs

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PSYCH 330 Psychology Of Language

An introduction to the study of psycholinguistics. Topics will include psychological studies of language, animal communication, child language and psychotic language behavior. Prerequisite: PSYCH 210.

3 hrs

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PSYCH 331 An Introduction To Health Psychology

The purpose of this course will be to survey the many applications of psychology to the encouragement of health and wellness, to the prevention of disease, and to the healing process. Prerequisite: PSYCH 210.

3 hrs

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PSYCH 400 Principles Of Psychological Testing

The theory of psychological testing and measurement. Prerequisite: PSYCH 316. Winter.

3 hrs

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PSYCH 403 Environmental Psychology

Analysis of environmental influences on behavior of individuals and their influence, in turn, on the environment. Topics will include processes relating to the environment (such as the perception, evaluation and adaptation to the environment) and social processes relating to the environment (such as privacy, territoriality and crowding). Prerequisite: PSYCH 210.

3 hrs

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PSYCH 405 Motivation

The fundamental conditions and principles of both human and animal motivation. Included will be discussion of such topics as classical drive theory, psychoanalytic approaches to motivation, achievement motivation, and recent developments in theories of motivation. May not be taken for graduate credit. Prerequisites: PSYCH 316. Offered: On demand.

3 hrs

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PSYCH 406 P Introduction To Developmental Disabilities

This course builds a knowledge base in developmental disabilities requisite to other studies in this field. Students will meet individuals with disabilities, encounter "people first" values, and examine their own attitudes about people with disabilities from a multicultural perspective. The course presents principles of human development, causes of disability, and the effects of disability on individuals and families over the life span. Topics include the health, education and social services systems serving people with disabilities with emphasis on severe disabilities and critical junctures in the life-span including childhood, school-age, transition to adult-living, employment, and aging.

4 hrs

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PSYCH 407 Cognitive Psychology

This course we will review the historical foundations and current state of knowledge regarding human information processing and the mental processes that underlie human behavior. the topics covered will range from foundational cognitive processes such as attention and memory, to more complex, higher-level processes such as problem-solving and decision-making. Prerequisite: PSYCH 210; PSYCH 302WI Offered: Winter Semester

3 hrs

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PSYCH 410 Abnormal Language

Abnormal language behaviors as clinical entities will be examined. Students will have an opportunity to study the language and thought of the schizophrenic, of abused and neglected children and autistic children, of individuals with brain damage, and of individuals with fluency disorders. Gender language and the misuse of language in the legal setting will also be presented. Discussion of listener's attitudes toward normal, but non-standard language, such as black dialect, will be given attention.

3 hrs

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PSYCH 415 History And Systems Of Psychology

Traces the historical origins of psychology beginning with its philosophical origins and discusses problems, areas and methods which resulted in major attempts to systematize psychological theory. This is the department's capstone course. Required of psychology majors. Prerequisites: Grade of C or better in PSYCH 302WI Restrictions: 415 should be taken only by Psychology majors in their last semester

3 hrs

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PSYCH 418 Biopsychology I

An introduction to the neural basis of human behavior. Covers research on the basic structure and function of the human brain, with topics including movement, perception, emotion, cognition, and psychological disorders. Prerequisite: PSYCH 302WI

3 hrs

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PSYCH 419 Biopsychology II

This course assumes that the student has mastered the basics of biopsychology, and deals with this topic in greater depth and scope than PSYCH418. It will begin with a brief review and update of basic materials of biopsychology, will quickly go on to a more advanced treatment of the topic, taking up where PSYCH 418 left off. There will, in particular, be an emphasis on human biopsychology. This course is primarily intended for the advanced undergraduate. Prerequisite: PSYCH 418 or equivalent.

3 hrs

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PSYCH 428 Advanced Applied Child Development

Course builds on the foundation laid in PSYCH 322, Child Development. Focus is on contemporary developmental issues, particularly those with applied and social policy implications for promoting positive healthy development of children and adolescents. This is an advanced course involving seminar like discussions and written assignments. Further, it is an academic service learning course and requires students to spend a minimum of 25 hours actively engaged in community work serving children or youth. Prerequisites: PSYCH 322 Child Psychology, earned grade of "B" or greater, or written permission of instructor.

3 hrs

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PSYCH 430 Introduction To Community Psychology And Community Mental Health

Overviews the field of community psychology, a field which seeks to understand how social, political and economic factors contribute to social problems and seeks to improve community well-being through social innovation and action research. The history, philosophical underpinnings, concepts, methods and research in community mental health and community psychology are reviewed. The course provides students with both a conceptual and experiential understanding of these fields. Individual and group projects are required. Prerequisite: 6 hours of psychology. Offered: Fall semesters.

3 hrs

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PSYCH 433 Abnormal Psychology

Interpretation of the major tensions and conflicts in normal personality and of unrealistic modes of reaction to these tensions and conflicts, as revealed in mental illness. May not be taken for graduate credit. Prerequisite(S): PSYCH 322 or PSYCH 323. Offered: Each semester.

3 hrs

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PSYCH 438 Psychology And Business And Industry: Motivational Factors

Investigation of psychological principles in business and industry: personnel selection, attitudes, motivation, supervision, communication and others influencing work efficiency. This course involves student projects within the business community. Students will be acquainted with the techniques of measurement of quality of motivation, behavioral laws due to the differences in motivation, how to assess and change the practices utilized within a business regarding their motivational effects upon employees. One goal will be the production of a motivational analysis profile for use in business and industry within the community. Prerequisite: Nine hours of psychology.

3 hrs

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PSYCH 440 The Psychology Of Aging

This course will identify major issues concerning psychology related to aging. The major influence 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.

3 hrs

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PSYCH 441 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. Prerequisites: None. Offered Winter semester.

3 hrs

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PSYCH 450 Special Topics

These are courses which are offered as the result of student demand, specialized faculty interests or the availability of a visiting expert in a field related to psychology. Students may enroll in one section of 450 per semester but not limited in the total number they may take. Prerequisite: Consent of instructor. On demand.

1-3 hrs

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PSYCH 450 A Special Topics

1-3 hrs

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PSYCH 450 G Special Topics In Psychology

1-3 hrs

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PSYCH 450 L Special Topics In Psychology

1-3 hrs

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PSYCH 453 Family Life Cycle: Developmental Approach Understanding Fam Dynmc

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 different family structures, child-rearing values and other factors, the students 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. Implications for human service professionals will be presented.

4 hrs

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PSYCH 453 P Family Life Cycle: Developmental Approach Understanding Fam Dynmc

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 different family structures, child-rearing values and other factors, the students 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. Implications for human service professionals will be presented.

4 hrs

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PSYCH 458 Behavior Modification

A survey of behavior modification procedures used to change individual behaviors in variety of settings. The course will entail a critical examination of the behavior modification literature and will include training in the application of the principles to community problems. Prerequisite: Either PSYCH 302 or PSYCH 304.

3 hrs

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PSYCH 460 Field Practicum In Behavior Modification

Practice in the application of behavior modification principles in community agencies. Students wishing to enroll in this course should apply to the director of the behavior modification program one semester in advance of anticipated enrollment. Prerequisites: PSYCH 302 or PSYCH 304 and PSYCH 458. On demand.

3 hrs

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PSYCH 461 A 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.

4 hrs

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PSYCH 490 Directed Individual Research

Student will work on an individual research project under the supervision of a staff member. Consent of staff member is required prior to registration in this course. A maximum of three hours may be applied toward the major in psychology and a maximum of twelve toward the bachelor's degree. On demand.

1-6 hrs

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Religious Studies

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.

3 hrs

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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

3 hrs

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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

3 hrs

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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.

1-3 hrs

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RELIG-ST 400 A Special Topics In Religious Studies

1-3 hrs

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RELIG-ST 400 B Special Topics In Religious Studies

1-3 hrs

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RELIG-ST 400 C Special Topics In Religious Studies

1-3 hrs

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RELIG-ST 400 D Special Topics In Religious Studies

1-3 hrs

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RELIG-ST 400 Special Topics In Religious Studies

1-3 hrs

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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

3 hrs

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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.

3 hrs

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RELIG-ST 403 Vision, Dreams and Prophecies as Religious Phenomena

This course explores the ways visions, dreams, and prophecies have acquired religious significance in Western and non-Western contexts from the ancient period to the present.

3 hrs

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RELIG-ST 404 Gender and Religion

Cross-cultural and comparative study of how religious groups create and transmit gender roles and expectations.

3 hrs

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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.

3 hrs

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RELIG-ST 492 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 NRMs-- e.g., deprogramming, exit counseling, and theologically oriented countermovement. Note: This course will be offered with RELIG-ST 5592; requirements for undergraduates will be less than for graduate students in terms of the length and sophistication of the research paper. Offered: On demand

3 hrs

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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

3 hrs

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RELIG-ST 494 RS 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.

3 hrs

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RELIG-ST 495 RS 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.

3 hrs

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RELIG-ST 496 RS 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.

3 hrs

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RELIG-ST 497 RS 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.

1-6 hrs

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Social Science

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.

3 hrs

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SOC-SCI 302 P 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.

4 hrs

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Sociology

SOCIOL 101 Sociology: An Introduction

An introduction to the study of society and the basic concepts of sociology. Fall, winter, summer.

3 hrs

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SOCIOL 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.

3 hrs

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SOCIOL 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. Offered: Fall/Winter

3 hrs

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SOCIOL 202 R 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.

3 hrs

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SOCIOL 203 Contemporary American Issues

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. Fall, winter.

3 hrs

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SOCIOL 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

3 hrs

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SOCIOL 207 the culture 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.

3 hrs

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SOCIOL 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.

3 hrs

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SOCIOL 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.

3 hrs

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SOCIOL 300 A Special Topics In Sociology

Each time this course is offered, a different area of sociology, to be announced, will be given. Crosslisted with ANTHRO 300R.

1-3 hrs

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SOCIOL 300 CF Special Topics in Sociology

Each time this course is offered, a different area of sociology, to be announced, will be given.

1-3 hrs

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SOCIOL 300 Special Topics in Sociology

Each time this course is offered, a different area of sociology, to be announced, will be given.

1-3 hrs

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SOCIOL 300 CH Special Topics in Sociology

1-3 hrs

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SOCIOL 300 NA Special Topics in Sociology

1-3 hrs

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SOCIOL 300 R 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.

1-3 hrs

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SOCIOL 300 RD Special Topics In Sociology

1-3 hrs

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SOCIOL 300 Special Topics In Sociology

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SOCIOL 300 RF Special Topics In Sociology

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SOCIOL 300 Special Topics In Sociology

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SOCIOL 300 RH Special Topics In Sociology

1-3 hrs

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SOCIOL 300 Special Topics In Sociology

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SOCIOL 300 Special Topics In Sociology

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SOCIOL 300 RT Special Topics In Sociology

1-3 hrs

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SOCIOL 300 Special Topics In Sociology

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SOCIOL 300 RV Special Topics In Sociology

1-3 hrs

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SOCIOL 300 Special Topics in Anthropology

1-3 hrs

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SOCIOL 300 Special Topics In Sociology

1-3 hrs

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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.

3 hrs

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SOCIOL 303 Cluster Course: Interdisciplinary Studies

3 hrs

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SOCIOL 303 CA Cluster Course: Perspectives In Science And Healing

3 hrs

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SOCIOL 303 CF Cluster Course: African And African American Women And Creativity

3 hrs

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SOCIOL 303 CO 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.

3 hrs

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SOCIOL 303 CP Cluster Course: Religion In America

3 hrs

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SOCIOL 303 CT Cluster Course: Healing And Cultural Diversity

3 hrs

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SOCIOL 303 CW Cluster Course: Introduction To Women's 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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SOCIOL 310 R 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.

3 hrs

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SOCIOL 313 R 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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SOCIOL 325 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 live (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.

1 hr

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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.

1 hr

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SOCIOL 328 Anthropology Of The Body

The Anthropology of the Body is an interdisciplinary and comparative approach to the study of the body as the subject and object of social processes. Anthropological approaches to ritual, performance, reproduction, and healing 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

3 hrs

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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.

1 hr

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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.

3 hrs

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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.

3 hrs

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SOCIOL 335 R 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.

3 hrs

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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. Offered: Fall Semester

3 hrs

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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.

3 hrs

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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.

1 hr

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SOCIOL 341 R 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. Offered: Annually.

3 hrs

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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.

3 hrs

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SOCIOL 346 Cultures Of The African Diaspora

This course will explore the cultures of African people and their descendants 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.

3 hrs

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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 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 ANTHRO 327.

1 hr

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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.

3 hrs

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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

3 hrs

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SOCIOL 352 Multicultural Women's Histories In The U.S.

This course offers an introduction to the histories of women in the U.S. from the 17th to the beginning of the 20th century. We will study colonial and US women of Native, Latino, European, African, and Asian descent, their contact with women (and men) of other ethnic groups, the political, economic, and legal changes affecting their lives, and the images they created of themselves and each other. Offered: Every Fall Semester

1 hr

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SOCIOL 353 Women, Class, And Ethnicity In The U.S.

This course focuses on contemporary women's lives and issues such as welfare and immigration, stereotypical imagery, and the pressure to put ethnic and/or class interests before gender concerns. We will study women of Native, African, European, Latin, Asian, and heterogeneous descent and the ethnic, economic, and legal forces shaping their lives. Offered: Every Fall

1 hr

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SOCIOL 354 Women's Lives In The Global Economy

This class explores the realities of women's lives and the work that women contribute to all societies. Using an anthropological approach, we will explore women's productive work in gathering, horticulture, agriculture, and industrialization, women's reproductive work, as well as their work of status enhancement and caring. Highlighting the changes wrought by colonialism, we will also explore women's work, both voluntary and involuntary, in the global economy. Offered: Every Winter Semester

1 hr

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SOCIOL 355 The United Nations' Womens Conferences

This class studies the United Women's Conferences in Mexico City (1975), Copenhagen (1980), Nairobi (1985), Beijing (1995), and Beijing +5 (2000), their themes, participants, documents, solutions, and consequences. Special attention will be paid to women's human rights. Offered: Every Winter Semester

1 hr

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SOCIOL 356 Cross-Cultural Gender Conceptions

This class surveys the varieties of gender definitions and roles in historical and contemporary human cultures in their association to stratified or equitable access to economic, political, and ideological resources. Topics include the definitions and varieties of human sexes and of human genders, and the multiple ways in which people create sexual and gender intersections and variations. Offered: Every Winter Semester

1 hr

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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.

3 hrs

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SOCIOL 362 Methods Of Sociological Research

Experimental and observational schemes; survey analysis; interview and questionnaire designs; scaling techniques; sampling. Also offered as CJC 483.

3 hrs

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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. Offered: Fall

3 hrs

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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SOCIOL 390 R 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.

1-6 hrs

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SOCIOL 390 RA Directed Field Experience I

1-6 hrs

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SOCIOL 391 Directed Field Experience II

A continuation of SOCIOL 390. Winter.

1-6 hrs

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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.

1-3 hrs

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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.

1-6 hrs

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SOCIOL 404 WI 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 361, SOCIOL 362, SOCIOL 363. Offered: Fall/Winter.

3 hrs

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SOCIOL 410 R 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.

3 hrs

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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.

3 hrs

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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.

2 hrs

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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.

1 hr

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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 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

3 hrs

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SOCIOL 420 Control Of Crime And Delinquency

The various ways societies have tried to control and prevent violations. Topics: the nature and types of law; a critical analysis of the American police, judicial and penal systems; the prevention of crime and delinquency. Also offered as CJC 420. Offered: Fall semester

3 hrs

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SOCIOL 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, suicide, and crimes against morals involving sex, alcohol, drugs and gambling. Winter.

3 hrs

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SOCIOL 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. Also offered as CJC 424.

3 hrs

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SOCIOL 430 R 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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SOCIOL 439 Social Meanings Of Illness, Suffering And Healing

The course explores the human experience of illness and healing and its intersection with cultural values and institutional arrangements. Various meanings that are associated with the experience of being sick and caring for the sick are examined, especially in terms of economic, cultural, and racial factors. The struggle to make sense out of suffering and the harshness of disease is examined, as is the possibility for growth, transformation, and healing that are contained in the illness experience. Offered: Summer

3 hrs

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SOCIOL 440 R 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.

3 hrs

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SOCIOL 441 Developing Countries

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.

3 hrs

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SOCIOL 470 Colloquium: Law And Social Structure

3 hrs

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SOCIOL 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 CJC 486. Annually.

3 hrs

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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 and summer.

5 hrs

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SPANISH 120 Elementary Spanish II

Continuation of SPANISH 110. Every semester. Prerequisite(s): SPANISH 110 or equivalent.

5 hrs

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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. Fall.

3 hrs

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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. Summer and on demand.

3 hrs

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SPANISH 221 Second Year Spanish II

Continuation of SPANISH 211. Winter.

3 hrs

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SPANISH 250 Commercial Spanish

Business practices in correspondence in the Spanish 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: SPANISH 221 or equivalent.

3 hrs

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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.

2-4 hrs

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SPANISH 290 Special Intermediate Spanish Topics II

Continuation of SPANISH 280. May not be repeated for credit. As needed.

2-4 hrs

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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

3 hrs

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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. Every fall.

3 hrs

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SPANISH 325 Intermediate Conversation And Composition II

Continuation of SPANISH 315. Required for major. Prerequisite: SPANISH 315. Every winter.

3 hrs

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SPANISH 350 Continental Spanish Civilization

General cultural characteristics of Spain. Readings from representative literary works.

3 hrs

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SPANISH 351 Latin American Civilization

Historical development of Latin America. Readings from representative literary works.

3 hrs

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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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.

1-3 hrs

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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.

3 hrs

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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.

3 hrs

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SPANISH 414 The Generation Of 1898

An examination of the intellectual, critical, historical, and social problems as reflected in the writings of Ganivet, Unamuno, Valle-Inclan, Baroja, Azorin, and others. Also offered as SPANISH 5514.

3 hrs

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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 department chairman. No more than six hours credit may be applied towards a degree. Prerequisite: SPANISH 325. Every fall.

3 hrs

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SPANISH 416 Medieval Spanish Literature

From the Cantar de Mio Cid to 1499. Winter.

3 hrs

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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.

3 hrs

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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.

3 hrs

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SPANISH 420 Cervantes' Don Quixote, Part I

An intensive reading of the first part of Cervantes' novel, Don Quixote.

3 hrs

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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.

3 hrs

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SPANISH 425 Advanced Conversation And Composition II

Continuation of SPANISH 415. See SPANISH 415. Required for teacher certification in Spanish. Prerequisite: SPANISH 415. Winter.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 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. Also offered as SPANISH 5531.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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SPANISH 453 Spanish-American Short Story

A study of Spanish-American short stories from Romanticism to the present. Also offered as SPANISH 5553.

3 hrs

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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.

3 hrs

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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. Permission of the department chairman is required. On demand.

1-3 hrs

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SPANISH 480 A 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 is required. On demand.

1-3 hrs

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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.

1-3 hrs

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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

3 hrs

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SPANISH H425 Advanced Conversation And Composition II

Continuation of SPANISH 415. See SPANISH 415. Required for teacher certification in Spanish. Prerequisite: SPANISH 415. Winter.

3 hrs

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SPANISH H426 Golden Age Drama

The development of the Spanish drama from Lope's youth to the death of Calderon. Also offered as SPANISH 5526.

3 hrs

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Statistics

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.

3 hrs

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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. Semester offered: Fall, Winter, Summer

3 hrs

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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

3 hrs

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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. Fall.

3 hrs

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STAT 441 Introduction To Mathematical Statistics II

Sampling Distributions; point estimation; interval estimation; hypothesis testing; analysis of variance; nonparametric methods; statistical software applications; topics in Applied Statistics. Prerequisites: STAT 436. Offered: Winter

3 hrs

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Theatre

THEATRE 100 Topical Studies In Theatre Practice

(A, B, C, D) This course provides students with an opportunity to explore special offerings in theater 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.

1-3 hrs

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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.

3 hrs

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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.

3 hrs

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THEATRE 121 Oral Interpretation Of Literature

Principles of interpretation, analysis and oral reading of prose and poetry. Emphasis upon platform performance: body language, vocal control and performance techniques.

3 hrs

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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.

3 hrs

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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.

1 hr

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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.

3 hrs

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THEATRE 295 B Speech For The Theater I

3 hrs

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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. THEATRE 298A prerequisite for THEATRE 298B. Fall/winter.

3 hrs

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THEATRE 300 Acting I

Basic principles of dramatic performance: training in voice, movement and language as an organic developmental whole.

3 hrs

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THEATRE 300 CH 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

3 hrs

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THEATRE 300 CR 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.

3 hrs

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THEATRE 300 CS Cluster Course: History Of Russian Culture

3 hrs

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THEATRE 315 Acting II

Textual analysis, characterization and building a role. Prerequisite: Acting I (THEATRE 300).

3 hrs

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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: THEATRE 113 (THEATRE 4311 recommended) or consent of instructor.

3 hrs

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THEATRE 325 Acting III

Study and practice of period and contemporary styles of acting. Prerequisite: Acting II (THEATRE 315) . Each semester.

3 hrs

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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.

2 hrs

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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.

3 hrs

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THEATRE 333 History Of Costuming

3 hrs

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THEATRE 340 Stage Makeup

Lecture and laboratory work in the fundamentals of makeup for the stage.

1 hr

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THEATRE 350 Theater History I

Development of theater art, including the physical stage, technical production elements, dramatic literature, and audience behavior from primitive origins to the 18th century.

3 hrs

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THEATRE 351 WI Theater History II

Development of Theater art, including the physical stage, technical production elements, dramatic literature, and audience behavior from the 18th century to the present.

3 hrs

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THEATRE 352 History Of Costuming

The study of the history of costume, with emphasis on the social and economic ramifications of costuming through the ages.

3 hrs

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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.

3 hrs

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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.

2 hrs

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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 MRT production. The first of a two-semester requirement in stage management for theater majors.

3 hrs

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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 THEATRE 379.

2 hrs

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THEATRE 380 Theater Production II

(A,B,C,D) A practicum course in theater 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 theater majors, each student will be expected to accept crewhead responsibilities and demonstrate proficiency in the areas selected. Prerequisite: THEATRE 113. Fall/winter/summer.

1 hr

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THEATRE 395 Speech For The Theater 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 theater: exercises to free the voice, develop effective breathing, tone production, articulation, flexibility of vocal production, and projection. Prerequisites: THEATRE 295A and THEATRE 295B.

3 hrs

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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.

1-6 hrs

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THEATRE 400 A Special Problems In Theatre: Acting

1-6 hrs

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THEATRE 400 B Special Problems In Theatre: Design

1-6 hrs

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THEATRE 400 C Special Problems In Theatre: Costumes

1-6 hrs

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THEATRE 400 CC 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

3 hrs[back to top](#)**THEATRE 400 CH Special Problems In Theatre****1-6 hrs**[back to top](#)**THEATRE 400 D Special Problems In Theatre: Scenic Design****1-6 hrs**[back to top](#)**THEATRE 400 Special Problems In Theatre: Directing****1-6 hrs**[back to top](#)**THEATRE 400 F Special Problems In Theatre: History****1-6 hrs**[back to top](#)**THEATRE 400 G Special Problems In Theatre: Lighting****1-6 hrs**[back to top](#)**THEATRE 400 H Special Problems In Theatre: Playwriting****1-6 hrs**[back to top](#)**THEATRE 400 I Special Problems In Theater: Sound****1-6 hrs**[back to top](#)**THEATRE 400 J Special Problems In Theatre: Stage Management****1-6 hrs**[back to top](#)**THEATRE 400 K Special Problems In Theatre: Technical Production****1-6 hrs**[back to top](#)**THEATRE 400 L Special Problems In Theatre: Theatre Management****1-6 hrs**[back to top](#)

THEATRE 400 M Special Problems In Theatre: Theory And Criticism**1-6 hrs**[back to top](#)**THEATRE 400 N Special Problems In Theatre: Dramaturgy****1-6 hrs**[back to top](#)**THEATRE 400 P Special Problems: Storytelling Art And Technique****1 hr**[back to top](#)**THEATRE 400 R Special Problems In Theatre****1-6 hrs**[back to top](#)**THEATRE 400 S Special Topics In Theatre****1-6 hrs**[back to top](#)**THEATRE 400 T Special Problems In Theatre****1-6 hrs**[back to top](#)**THEATRE 400 U Special Topics In Theatre****1-6 hrs**[back to top](#)**THEATRE 400 U Special Problems in Theater: Costumes****3 hrs**[back to top](#)**THEATRE 400 X Special Problems In Theatre****1-6 hrs**[back to top](#)**THEATRE 401 CH 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.

3 hrs[back to top](#)**THEATRE 415 Beginning Directing**

Theory and process of play production, including interpretation, composition, picturization, movement, rhythm, and character interpretation.

3 hrs[back to top](#)

THEATRE 418 History of American Musical Theater

A survey of trend in the American musical theater 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 theater.

0 hrs

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THEATRE 425 Advanced Directing

Continuation of work in THEATRE 415, with special attention to proscenium, arena, and thrust staging techniques. Prerequisite: THEATRE 415 or equivalent experience.

3 hrs

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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.

3 hrs

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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.

3 hrs

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THEATRE 432 A Costume Design

3 hrs

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THEATRE 432 B Costume Design

3 hrs

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THEATRE 432 C Costume Design

3 hrs

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THEATRE 432 D Costume Design

3 hrs

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THEATRE 437 Playwriting I

Theory and practice of writing for the theatre with emphasis on the basic techniques.

3 hrs

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THEATRE 438 Playwriting II

Theory and practice of writing for the theatre with emphasis on advanced techniques.

3 hrs

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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 theater such as sound-effect systems, inter-communication equipment, and includes a special section on the creation of sound and music for theatre productions.

3 hrs

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THEATRE 478 Stage Management II

Practicum course in stage management. Requires stage management of a University production and/or assistant stage management of an MRT production and/or assistant stage management of a main stage University production. Prerequisite: THEATRE 378 or consent of instructor. Fall/ winter/summer.

2 hrs

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THEATRE 489 Seminar In Professional Theatre

This course shall be conducted by a visiting artist who is in residence with either Missouri Repertory Theatre or the academic theater. Both student work and the work of the visitor shall be analyzed and criticized in this semester. Fall.

1 hr

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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.

3-6 hrs

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Urban Planning and Design

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. Offered: Fall

3 hrs

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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. Offered: Fall

3 hrs

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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. Offered: Fall

3 hrs

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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. Offered Spring

3 hrs

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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 first-hand research; survey design; case study method; data gathering methods such as observation, open-ended interviewing and questionnaires. Offered: Fall

3 hrs

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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. Students are asked to supply their own computer for the course. Students should consult with the department before purchasing the computer. Prerequisite: ENV-DSN 201, ENV-DSN 202 Offered: Fall Restrictions: Consent of Department

4 hrs

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UPD 312 Planning & Design Studio II

This course integrates material from Quantitative Methods in Urban Planning. 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 310, UPD 300 Offered: Winter Restrictions: Consent of Dept. of Architecture, Urban Planning & Design

4 hrs

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UPD 320 Planning Theory

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 is writing intensive and 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. Offered: Winter

3 hrs

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UPD 332 CZ Enviromental 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.

3 hrs

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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. Offered Fall

3 hrs

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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. Offered Spring

3 hrs

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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. Student will be exposed to the many design decisions that must be made when developing a resume and portfolio. Offered Spring

1 hr

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UPD 410 Planning & 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: Permission of Department. Offered: Fall

4 hrs

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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 UPD 410. Offered Fall

1 hr

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UPD 412 WI 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 and not more than one grade of D in a UPD studio course. Offered: Spring

5 hrs

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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. Offered Spring

1 hr

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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. Offered Fall

3 hrs

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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 Offered: Fall 2005

3 hrs

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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

3 hrs

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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.

3 hrs

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UPD 450 Planning Law & Practice

Introduction to legal procedures basic to urban planning, including legal, constitutional, legislative, and administrative concepts, controls, and land-use regulations. Offered Fall

3 hrs

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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. Offered: Fall

3 hrs

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UPD 490 Urban Planning Internship

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 310 Urban Planning Studio I, UPD 312 Urban Planning Studio II, GEOG 401 GIS Mapping. Restrictions: Consent of the Department.

3 hrs

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UPD 496 Directed Studies In Urban Planning

Intensive reading and/or research in an area selected by the student in consultation with the instructor. Prerequisites: UPD 260,UPD 270 and UPD 300 Offered: On Demand Restrictions: Permission of instructor Offered Fall and Spring

1-3 hrs

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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. Offered: Every semester Restrictions: Permission of instructor

1-3 hrs

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UPD 499 D 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 Restrictions: Permission of instructor

1-3 hrs

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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. Offered: Every semester Restrictions: Permission of instructor

1-3 hrs

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UPD 499 F 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 Restrictions: Permission of instructor

1-3 hrs

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Urban Studies

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

3 hrs

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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.

3 hrs

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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

3 hrs

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URBAN ST 495 Urban Studies 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

1-6 hrs

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URBAN ST 499 WI 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.

3 hrs

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Women's and Gender Studies

WGS 201 Introduction To Women's Studies

This course will explore the lives of women from an interdisciplinary perspective. Each time this course is taught it will draw upon the disciplinary expertise of the course instructors. Offered: Every semester

3 hrs

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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

1-3 hrs

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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

3 hrs

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World Literature

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.

3 hrs

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School of Biological Sciences

School of Biological Sciences Courses Biology (BIOL)

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.

3 hrs

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BIOLOGY 102 L 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.

1 hr

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BIOLOGY 108 General Biology I

Basic studies in Biology emphasizing the unity and diversity of life. Cellular structure, function, heredity, development, ecology and evolution will be discussed. Three hours lecture per week. Prerequisite(s): High School Biology and Chemistry background highly recommended.

3 hrs

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BIOLOGY 108 L 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

1 hr

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BIOLOGY 109 General Biology II

Basic studies in Biology emphasizing the unity and diversity of life. Structure, function, heredity, development, regulation of growth and evolution will be discussed. Three hours lecture per week. Prerequisite(s) High School Biology and Chemistry background highly recommended.

3 hrs

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BIOLOGY 109 L 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

1 hr

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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. One hour lecture per week. Offered: Fall

1 hr

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BIOLOGY 1 Biology Elective Lab

Transfer Credit

99 hrs

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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 212, or LS-ANATO 119/119L, LS-MCRB 121 and CHEM 212, OR consent of SBS advisor.

3 hrs

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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.

3 hrs

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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 212.

3 hrs

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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.

3 hrs

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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 212

3 hrs

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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.

3 hrs

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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 212

3 hrs

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BIOLOGY 312 WL 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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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

2 hrs

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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

2 hrs

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BIOLOGY 328 Histology

Animal tissues and their specialization in the organism, with major emphasis on higher organisms. Two hours lecture per week. Prerequisite(s): BIOLOGY 109 or BIOLOGY 118, BIOLOGY 202, CHEM 212.

2 hrs

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BIOLOGY 328 L 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: BIOLOGY 201, CHEM 212, (corequisite) BIOLOGY 328, consent of SBS Adviser. Offered: Winter

3 hrs

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BIOLOGY 328 WL 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. Four hours lab per week. Designation: Writing Intensive. Prerequisites: BIOLOGY 202, CHEM 212, (co-requisite) BIOLOGY 328, consent of SBS advisor.

3 hrs

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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.)

2 hrs

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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-PHYSICS 117 LS-PHYSICS 316, BIOLOGY 202 and/or BIOLOGY 329. Offered: Summer

2 hrs

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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 322. Offered (semester): Winter.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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-PHYSICS 316, LS-MCRB 341, or permission of instructor.

3 hrs

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BIOLOGY 498 WI 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 322, completion of core requirements, consent of SBS adviser. Designation: Writing Intensive.

3 hrs

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Life Sciences (LS)

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 212, 3.0 Science GPA. Semester offered: Every semester

1-3 hrs

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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

3 hrs

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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, BIOLOGY 360, BIOLOGY 202 & BIOLOGY 206. Offered: Fall

2 hrs

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LIFE-SCI 490 WI 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.

3 hrs

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LIFE-SCI 497 A 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 GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Advisor.

1-3 hrs

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LIFE-SCI 497 B 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.

1-3 hrs

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LIFE-SCI 497 C 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.

1-3 hrs

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LIFE-SCI 497 D 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.

1-3 hrs

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LIFE-SCI 497 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.

1-3 hrs

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LIFE-SCI 497 F 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.

1-3 hrs

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LIFE-SCI 497 G 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.

1-3 hrs

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LIFE-SCI 497 H 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.

1-3 hrs

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LIFE-SCI 497 I 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.

1-3 hrs

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LIFE-SCI 497 J 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-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

1-3 hrs

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LIFE-SCI 497 K 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-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

1-3 hrs

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LIFE-SCI 497 L 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-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

1-3 hrs

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LIFE-SCI 497 P 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-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 GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Advisor. Offered: Fall, Winter, Summer

1-3 hrs

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LIFE-SCI 499 A Undergraduate Research-Bioinformatics

Independent research, including the writing of research reports in the area of bioinformatics. Combined credit for LS 497 and 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.

1-3 hrs

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LIFE-SCI 499 B 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-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.

1-3 hrs

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LIFE-SCI 499 C 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-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.

1-3 hrs

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LIFE-SCI 499 D 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-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.

1-3 hrs

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LIFE-SCI 499 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 LS 497 and 499 may not exceed 4 credit hours towards biology course degree requirements.

1-3 hrs

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LIFE-SCI 499 F 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-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.

1-3 hrs

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LIFE-SCI 499 G 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.

1-3 hrs

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LIFE-SCI 499 H 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.

1-3 hrs

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LIFE-SCI 499 I 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.

1-3 hrs

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LIFE-SCI 499 J 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.

1-3 hrs

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LIFE-SCI 499 K 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.

1-3 hrs

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LIFE-SCI 499 L 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 Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.

1-3 hrs

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LIFE-SCI 499 M 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.

1-3 hrs

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LIFE-SCI 499 P Undergraduate Research-Biotechnology

Independent research, including the writing of research reports in the area of biotechnology. Combined credit for LS 497 and 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

1-3 hrs

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LIFE-SCI H490 WI 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.

3 hrs

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Life Sciences - Anatomy (LSANAT)

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.

3 hrs

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LS-ANATO 118 L 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

2 hrs

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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.

3 hrs

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LS-ANATO 119 L 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.

1 hr

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Life Sciences - Biochemistry (LSBIOC)

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.

4 hrs

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LS-BIOC 3120 Biochemistry And Nutrition

The fundamentals of biochemistry and the nutritional implications as they relate to source and utilization of essential nutrients.

3 hrs

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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.

3 hrs

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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 322.

3 hrs

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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 322.

3 hrs

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LS-BIOC 360 L 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. Prerequisites: LS-BIOC 360, MATH 220 and a 3.0 science GPA.

3 hrs

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LS-BIOC 360 WL 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.

3 hrs

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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.

3 hrs

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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 365G

3 hrs

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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

3 hrs

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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.

3 hrs

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Life Sciences - Microbiology (LSMCRB)

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

3 hrs

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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.

3 hrs

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LS-MCRB 114 L 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-MCRB113.

2 hrs

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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

3 hrs

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LS-MCRB 121 L 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)

1 hr

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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.

3 hrs

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LS-MCRB 313 L 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 co-requisites, LS-MCRB 313, LS-BIOC 341, consent of SBS adviser. Offered: Fall

3 hrs

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LS-MCRB 313 WL 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

3 hrs

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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

4 hrs

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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

3 hrs

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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

3 hrs

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Life Sciences - Physiology (LSPHYS)

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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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LS-PHYS 399 Pharmacy Physiology I

Introduction to the general principles of neurophysiology. Prerequisites: BIOLOGY 202 and CHEM 320.

3 hrs

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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-PHYSICS 399.

3 hrs

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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.

5 hrs

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Medical Technology

MED-TECH 999 Medical Technology Internship

0 hrs

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Henry W. Bloch School of Business and Public Administration

Bloch School of Business & Public Administration 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. Prerequisite: MATH 110 or its equivalent and completion of 30 hours

3 hrs

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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

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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ACCTNG 350 Accounting Systems And Controls

A survey of computer file methods for accounting data; and, analysis of the administrative, operational, documentation, and security controls over the computer process. Illustrations of computerized accounting and auditing techniques. Prerequisites: MIS 203 or BIS 202, ACCTNG 307 and ACCTNG 310

3 hrs

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ACCTNG 3 EC Upper Level Accounting Elective

Upper Level Transfer Credit

99 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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ACCTNG 420 Advanced Accounting

A study of the accounting business combinations and the preparation of consolidated financial statements. Prerequisite: ACCTNG 311 or equivalent

3 hrs

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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

3 hrs

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ACCTNG 450 Technology And The Accountant

A study of selected computer, systems, and technology issues that impact contemporary accounting practice and business. The course includes coverage of database management systems and incorporates several hands-on applications. Prerequisite: ACCTNG 350 or equivalent

3 hrs

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ACCTNG 496 Internship

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. Offered: Every Semester

1 hr

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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.

1-3 hrs

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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 or BDS 308

3 hrs

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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, STAT 235 or BDS 308

3 hrs

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DSOM 346 Management Analysis

This course examines the application of various scientific and mathematical methods to decision making in various business disciplines, and makes use of spreadsheets and other software to construct and analyze practical models 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: STAT 235 or BDS 308, and MIS 203 or BIS 202

3 hrs

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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, TQM, Theory of Constraints, and other contemporary tools via appropriate software, case studies, and projects. Prerequisite: DSOM 309

3 hrs

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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

1-3 hrs

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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

1-3 hrs

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Entrepreneurship (ENT)

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.

3 hrs

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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.

3 hrs

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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 215 or ENT 315

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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..

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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

1-3 hrs

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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.

1-3 hrs

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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

3 hrs

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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

3 hrs

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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 or BUS-ADM 325

3 hrs

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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: MGT 302, FIN 325 or BUS-ADM 325

3 hrs

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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. Prerequisite: BUS-ADM 325, FIN 325, ECON 202

3 hrs

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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, FIN 325 or BUS-ADM 325

3 hrs

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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 computer techniques. Prerequisite: FIN 325 or BUS-ADM 325

3 hrs

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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.

1-3 hrs

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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

1-3 hrs

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Health Administration (HA)

HLTH-ADM 465 Contemporary Issues In Urban Public Health

This course examines current issues in urban public health and the policies and programs designed to address those issues. Issues of interest include treatment of drug addiction, the special health problems of the very young and very old, problems of urban public hospitals, policies towards AIDs treatments, as well as other emerging issues. Using local health officials as guest speakers, the course will examine how these issues affect the Kansas City area in particular.

3 hrs

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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 Freshman.

3 hrs

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MGT 301 Effective Business Communication

Business Writing introduces students to the strategic nature of business communication. By the end of the course, students should be able to analyze business situations and prepare messages that fulfill all of the intended purposes of their communication, meet the needs and expectations of business audiences, and take into account other relevant contextual factors. Students will develop the tools to deliver polished, professional communications in a variety of media. Prerequisite: ENGLISH 225, successful completion of WEPTRestrictions: Course must completed in student's junior year

3 hrs

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MGT 302 Effective Business Research and Presentations

This course will emphasize the development of higher-order thinking skills, which include analysis, synthesis, and evaluation. By the end of the course, students will learn to analyze financial statements, effectively use library and electronic business research tools, and prepare and deliver effective oral and written presentations. Prerequisites: COMM-ST 110, ACCTNG 211, MIS 203 or BIS 202, MGT 301

3 hrs

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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.

3 hrs

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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 or BMA 306.

3 hrs

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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.

3 hrs

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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 or BMA 305

3 hrs

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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 or BMA 305

3 hrs

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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.

3 hrs

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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

3-6 hrs

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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, or BUS-ADM 325,MGT 330 or BMA 305, MKT 324 or BUS-ADM 314, DSOM 326 or BUS-ADM 426 or concurrent enrollment.

3 hrs

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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

1-3 hrs

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MGT 497 Special Topics: Strategic Management

Study and research in areas of special interest under individual faculty direction. Prerequisites: Senior Standing and pre-registration consent of instructor.

1-3 hrs

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Management Information Systems (MIS)

MIS 100 Essentials of PowerPoint

An overview of numerous topics needed to take the Microsoft Office Specialist certification exam in PowerPoint. Topics covered will include creating and formatting content, and managing and delivering presentations.

1 hr

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MIS 101 Essentials of Excel

An overview of numerous topics needed to take the Microsoft Office Specialist certification exam in Excel. Topics covered will include creating, analyzing, and formatting data and content and managing workbooks.

1 hr

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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.

3 hrs

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MIS 203 Computer Applications for Business

A comprehensive coverage of computer tools for personal productivity in a management context, including advanced coverage of spreadsheets and introduction to databases. Prerequisite: MATH 110 and Certification as Microsoft Office Specialist in Excel and PowerPoint.

3 hrs

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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 203 and STAT 235

3 hrs

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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 203 or BIS 202, and six hours of business school courses at the 300-level or above

3 hrs

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MIS 469 Information Systems Consulting

An application of systems concepts to the evaluation and implementation of information systems. 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. Course content might be actual projects for local organizations, or it might be a simulation of a consulting engagement. Prerequisite: Senior Standing and Instructor Permission

3 hrs

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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

1-3 hrs

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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

1-3 hrs

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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.

3 hrs

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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 or BUS-ADM 324

3 hrs

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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 con-current enrollment

3 hrs

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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 or BUS-ADM 324

3 hrs

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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

3 hrs

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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 or BUS-ADM 324

3 hrs

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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 or BUS-ADM 324

3 hrs

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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

1-3 hrs

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Public Administration (PA)

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.

3 hrs

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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. Offered: Fall, Winter, Summer.

3 hrs

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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. Offered: Fall

3 hrs

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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. Offered: Fall, Winter, Summer.

3 hrs

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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. Prerequisite(s): None.

1 hr

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PUB-ADM 455 B Non-Profit Leadership Issues: Board-Staff Relations

1 hr

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PUB-ADM 455 C Non-Profit Leadership Issues:A Vital Resource In A Changing World

1 hr

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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.

3 hrs

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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.

1-3 hrs

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PUB-ADM 497 B Special Topics In Public Administration

1-3 hrs

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Law Courses

School of Computing & Engineering

School of Computing & Engineering Courses Civil Engineering (CE)

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)

3 hrs

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CIV-ENGR 190 Special Topics

Selected introductory topics in the area of computing. May be repeated for credit when topic varies. Prerequisite: Permission of Instructor

1-3 hrs

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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

3 hrs

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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

3 hrs

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CIV-ENGR 275 Engineering Statics

Fundamentals of statics; static equilibrium and introduction to elements of mechanics of elastic materials. Prerequisite: PHYSICS 240; Co-requisite: MATH 250

3 hrs

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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.

3 hrs

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CIV-ENGR 301 Fundamental Topics In Civil Engineering

Special engineering topics for undergraduate students. Prerequisite: Instructor's consent.

1-3 hrs

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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

3 hrs

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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: CIV-ENGR 219 and MATH 220

3 hrs

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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

1 hr

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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

1 hr

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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

4 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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 and MATH 345

3 hrs

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CIV-ENGR 355 WI 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

5 hrs

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CIV-ENGR 378 WI Civil Engineering Materials

Composition, structure, properties, behavior and selection of civil engineering materials. Prerequisite: CIV-ENGR 276, WEPT passed

3 hrs

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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

0 hrs

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CIV-ENGR 3 Upper Level Civil Engineering Elective

Upper Level Transfer Credit

0 hrs

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CIV-ENGR 3 EE Upper Level Civil Engineering Elective

Upper Level Transfer Credit

99 hrs

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CIV-ENGR 400 Problems

Directed investigation of civil engineering problems. Prerequisite: Instructor's consent

1-4 hrs

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CIV-ENGR 401 Topics In Civil Engineering

Study of current and new technical developments in civil engineering.

1-3 hrs

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CIV-ENGR 401 A Special Topics In Civil Engineering

1-3 hrs

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CIV-ENGR 401 D Topics In Civil Engineering**3 hrs**[back to top](#)**CIV-ENGR 401 G Topics In Civil Engineering****1-3 hrs**[back to top](#)**CIV-ENGR 401 J Special Topics In Civil Engineering**

Study of current and new technical developments in civil engineering.

1-3 hrs[back to top](#)**CIV-ENGR 401 X Topics in Civil Engineering****1-3 hrs**[back to top](#)**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: CIV-ENGR 355, and CIV-ENGR 323 or CIV-ENGR 422

2 hrs[back to top](#)**CIV-ENGR 412 Civil Engineering Systems Design II**

Continuation of CIV-ENGR 411 Prerequisite: CIV-ENGR 411

3 hrs[back to top](#)**CIV-ENGR 412 WI Civil Engineering Systems Design II**

Continuation of CIV-ENGR 411 Prerequisite: CIV-ENGR 411

3 hrs[back to top](#)**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.

3 hrs[back to top](#)**CIV-ENGR 422 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

3 hrs[back to top](#)

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.

3 hrs

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CIV-ENGR 425 Prestressed Concrete

Theory and practice of prestressed concrete design. Pretensioning, posttensioning. Anchorage of steel. Materials, design specifications. Prerequisite: CIV-ENGR 422

3 hrs

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CIV-ENGR 432 Foundation Engineering

Design of basic foundation structures, footings, retaining walls, pile foundations, dams. Prerequisite: CIV-ENGR 335.

3 hrs

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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

3 hrs

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CIV-ENGR 444 Unit Process Laboratory

Chemical and physical relationships as applied to unit processes of water and wastewater. Prerequisite: CIV-ENGR 342.

3 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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CIV-ENGR 453 Hydraulics And Variability Of Rivers

Introduction to the concepts of alluvial channel behavior, evolution and change due to natural and man-induced modifications to streams and watersheds. Numerous case studies of river behavior are studied from the perspective of hydraulics, geomorphology and sediment transport. Prerequisite: CIV-ENGR 355

3 hrs

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CIV-ENGR 454 River Stability And Scour

Bridge hydraulics, stream stability, scour at bridge piers and abutments, hydraulic modeling of floods, countermeasures for protection of bridge infrastructure. Prerequisite: CIV-ENGR 355

3 hrs

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CIV-ENGR 455 Highways, Hydraulics & Sediment Transport

Hydraulics of bridge encroachments, fundamentals of fluvial geomorphology, sediment transport, alluvial channel flow, sediment transport modeling, case studies of alluvial problems and bridges. Prerequisite: CIV-ENGR 355

3 hrs

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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.

3 hrs

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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: MEC-ENGR 285 and CIV-ENGR 211

3 hrs

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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: MEC-ENGR 285 and CIV-ENGR 211

3 hrs

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CIV-ENGR 469 Construction Methods And Equipment

Selection and use of construction equipment; planning construction operations. Equipment economics. Prerequisite: MEC-ENGR 285 and CIV-ENGR 211

3 hrs

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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.

3 hrs

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CIV-ENGR 475 Introduction To Earthquake Engineering

Introduction to the fundamentals of earthquake engineering and earthquake resistant design of civil engineering structures. Prerequisite: MEC-ENGR 285

3 hrs

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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

3 hrs

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CIV-ENGR 484 Pavement Materials And Design

Properties of materials used in roads, airports, and other pavement construction. Design methods for rigid and flexible pavements. Prerequisite: CIV-ENGR 378WI.

3 hrs

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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

3 hrs

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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

3 hrs

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CIV-ENGR 491 Internship

For International students who must register for 1 credit hour to cover off-campus employment which is approved as related to their degree by their departmental advisor and ISAO.

6 hrs

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Computer Science (CS)

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.

3 hrs

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COMP-SCI 101 Problem Solving And Programming I

Problem solving and algorithms, design using objects. Use of structured programming, arrays, control structures, strings searching, sorting and files in C++. Coding, testing and debugging using a modern development environment. Prerequisites: MATH 110 or equivalent.

3 hrs

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COMP-SCI 190 Special Topics

Selected introductory topics in the area of computing. May be repeated for credit when topic varies. Prerequisite: Permission of Instructor

1-3 hrs

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COMP-SCI 190 A Special Topics

Selected introductory topics in the area of computing. May be repeated for credit when topic varies. Prerequisite: Permission of Instructor

1-3 hrs

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COMP-SCI 191 Discrete Structures I

Mathematical logic, sets, relations, functions, mathematical induction, algebraic structures with emphasis on computing applications. Prerequisite: MATH 110

3 hrs

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COMP-SCI 1 EC Computer Science Elective

Transfer Credit

99 hrs

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COMP-SCI 201 Problem Solving And Programming II

Problem solving and programming using classes and objects. Abstract data types, templates, pointers, linked lists, stacks and queues implemented C++. Recursion, efficiency of searching and sorting algorithms. Prerequisites: COMP-SCI 101, COMP-SCI 191.

3 hrs

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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.

3 hrs

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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.

2 hrs

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COMP-SCI 281 Introduction To Computer Architecture

Data Representation, Number Systems, Boolean Algebra, Sequential Logic, Computer Organization and design, Computer Organization and design, Computer Software, Input and Output Organization. Prerequisite: COMP-SCI 191

3 hrs

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COMP-SCI 282 Assembler Language Programming

Use of an Assembler Language for a virtual machine, Internal Representation of Data and Instructions, the Assembly Process, Loading and Program Relocation and Execution. I/O, Exception Handling, Alternative Architectures. Prerequisite: COMP-SCI 201 and COMP-SCI 281.

3 hrs

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COMP-SCI 290 Special Topics

Selected intermediate topics in the area of computing. May be repeated for credit when topic varies. Prerequisite: Permission of Instructor.

1-3 hrs

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COMP-SCI 291 Discrete Structures II

Lattice structures and graph theory, algorithms, Boolean algebra, introduction to computability theory and abstract machines. Prerequisite: COMP-SCI 191 or ECE 226 and E&C-ENGR 227 for ECE students.

3 hrs

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COMP-SCI 304 WI Ethics And Professionalism

Societal and ethical obligations of computer science, IT, and electrical/computer engineering practice. Topics include ethical obligations of professional practice, electronic privacy, intellectual property, and whistle-blowing. This course is a writing-intensive course. Prerequisites: ENGL 225 (Freshman English II) or equivalent and completion of Written English Proficiency Test (WEPT)

3 hrs

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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 multithreading. Prerequisite: COMP-SCI 201 or equivalent Offered: Every Semester

3 hrs

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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.

3 hrs

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COMP-SCI 390 Special Topics

Selected topics in the area of computing at the junior level. May be repeated for credit when the topic varies. Prerequisite: Permission of Instructor.

1-3 hrs

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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.

3 hrs

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COMP-SCI 394 R Applied Probability

Basic concepts of probability theory. Counting and measuring. Probability, conditional probability and independence. Discrete, continuous, and multivariate 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: COMP-SCI 201, or E&C-ENGR 216, MATH 250, MATH 235 or E&C-ENGR 341

3 hrs

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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.

3 hrs

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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 telecommunications standards. Prerequisite: COMP-SCI 311 or consent of instructor.

3 hrs

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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

3 hrs

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COMP-SCI 421 Fundamentals Of Data Communication

3 hrs

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COMP-SCI 421 A 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 352, COMP-SCI 394 (recommended). Offered: Every Semester Restrictions: None

3 hrs

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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, COMP-SCI 431.

3 hrs

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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, and COMP-SCI 281 (or both E&C-ENGR 226 and EDE 227 for ECE students).

3 hrs

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COMP-SCI 441 Programming Languages: Design And Implementation

Specifications of syntax and semantics, simple statements, precedence, infix, prefix, and postfix notation, global properties of algorithmic languages, scope of declarations, storage allocation, binding time of constituents, subroutines, co-routines and tasks, list processing, string manipulation, run-time representation of program and data structures. Prerequisite: COMP-SCI 352.

3 hrs

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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/translators are built and operate is important to understanding efficiency of operation and storage. Prerequisite: COMP-SCI 352.

3 hrs

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COMP-SCI 451 Software Engineering

Taxonomy of software engineering, software lifecycle, process structured vs. data structured analysis and design, structured design methodologies, object oriented design, foundations of software engineering. This course fulfills the senior general education synthesis requirement. Prerequisite: COMP-SCI 352.

3 hrs

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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. Use of graphical interface standard X-Windows and the development of high quality user interfaces. Programming of user interfaces using Visual Basic. Prerequisites: COMP-SCI 451.

3 hrs

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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; 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; knowledge of at least one high-level programming language.

3 hrs

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COMP-SCI 458 Software Architecture: Testing & Maintenance

Introduction of software system testing (including verification), software reuse, software maintenance, and software re-engineering. Prerequisite(s): COMP-SCI 352; knowledge of at least one high-level programming language.

3 hrs

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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.

3 hrs

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COMP-SCI 464 Applied Artificial Intelligence

Intelligent agents. Solving problems by search. Game playing. Logical reasoning systems. Planning agents. Decision making. Learning methods. Neural networks and learning. Neural language processing. Perception Expert systems. Prerequisite(s): COMP-SCI 461 Artificial Intelligence.

3 hrs

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COMP-SCI 470 Introduction To Database Management Systems

Database organization and query processing and optimization, database design, schema and sub-schema, data independence, query languages, physical and logical organization of databases, normalization transaction management, database recovery. Prerequisites: COMP-SCI S352.

3 hrs

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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

3 hrs

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COMP-SCI 475 Introduction To Computer Graphics

Interactive Computer Graphics, Hardware Interaction, 3D transformations, Shading, Lighting and Texturing. Prerequisite: COMP-SCI 352.

3 hrs

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COMP-SCI 481 Advanced Computer Architecture

Organization and Function of Memories, Direct Access Storage Devices, Central Processor Units, and Sequential Storage Devices, Classical Von Neuman Architecture. Prerequisite: COMP-SCI 281 and COMP-SCI 282.

3 hrs

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COMP-SCI 490 Special Topics

Selected topics in specific areas of computer science. May be repeated for credit when the topic varies.

1-3 hrs

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COMP-SCI 490 BC Special Topics

1-3 hrs

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COMP-SCI 490 DD Special Topics

1-3 hrs

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COMP-SCI 490 DS Special Topics

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COMP-SCI 490 special Topics

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COMP-SCI 490 Special Topics

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COMP-SCI 490 NA Special Topics

1-3 hrs

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COMP-SCI 490 OS Special Topics

3 hrs

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COMP-SCI 490 R Special Topics

Selected topics in specific areas of computer science. May be repeated for credit when the topic varies.

1-3 hrs

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COMP-SCI 490 RS Special Topics**1-3 hrs**[back to top](#)**COMP-SCI 490 SD Special Topics****3 hrs**[back to top](#)**COMP-SCI 490 SK Special Topics Computer Science****1-3 hrs**[back to top](#)**COMP-SCI 490 Special Topics****1-3 hrs**[back to top](#)**COMP-SCI 490 WD Special Topics****1-3 hrs**[back to top](#)**COMP-SCI 490 WI Special Topics****1-3 hrs**[back to top](#)**COMP-SCI 490 WN Special Topics****1-3 hrs**[back to top](#)**COMP-SCI 490 WW Special Topics****1-3 hrs**[back to top](#)**COMP-SCI 490 Special Topics****1-3 hrs**[back to top](#)**COMP-SCI 490 XX Special Topics****1-3 hrs**[back to top](#)**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/nocredit 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/IT491 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

6 hrs[back to top](#)

COMP-SCI 493 Introduction To Computability, Formal Languages And Automata

Context-free grammars, finite state acceptors and regular languages, pushdown automata, Turing machines, Church's Thesis, primitive recursive functions, partial recursive functions and computational complexity. Prerequisite: COMP-SCI 291.

3 hrs

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COMP-SCI 494 R Applied Stochastic Models

Review of basic probability, Poisson counting process, Markovian birth and death processes and elementary queuing theory. Basic models commonly used in computer and telecommunication networks, both in discrete time and continuous time. Stochastic processes as needed for communication theory; Power Spectral Density and Cross Correlation. Prerequisite: CS 394R or permission from instructor Offered: Fall Semester Restrictions: None

3 hrs

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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.

1-3 hrs

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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.

1-3 hrs

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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.

1-3 hrs

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Electrical and Computer Engineering (ECE)

E&C-ENGR 216 Engineering Computation

Analysis and synthesis of structured digital computer programs for solving engineering problems in a high level programming language, e.g., Pointers, linked-list in object-oriented language. Intro to symbolic language. Prerequisite: MATH 210

4 hrs

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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, application of Verilog HDL design throughout the course. Co-requisite: E&C-ENGR 227 (1.)

3 hrs

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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.

1 hr

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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

3 hrs

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E&C-ENGR 276 Circuit Theory

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: E&C-ENGR 216, PHYSICS 250 with E&C-ENGR 341 or E&C-ENGR 401H concurrently.

3 hrs

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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.

1-4 hrs

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E&C-ENGR 302 Traveling Waves And Fields

ECE 302: Traveling Waves and Fields (4). Dimensions in electromagnetic wave propagation; per unit length parameters of common transmission line configurations; derivation of general time-domain and time-harmonic (phasor) forms of transmission line equations; Laplace transform solution to arbitrary time excitations ζ the bounce diagram; introduction to the concept of voltage and current traveling waves; input impedance, VSWR and power flow on a transmission line; open- and short-circuit, $\zeta/4$ and ζ length lines; Smith Chart & applications; lossy lines; the complex number system, DeMoivre's theorem, analytic functions and Cauchy-Riemann equations, Taylor and Laurent series, Cauchy's integral formulas, Cauchy residue theorem; multi-valued functions complex vectors; review of Gauss's, Faraday and Ampere's laws of electromagnetism and differential form of Maxwell's equations; time-harmonic form of Maxwell's equations; Poynting vector; boundary conditions; wave equation from Maxwell's equations; uniform plane waves in lossy and lossless media; power flow in uniform plane waves; skin depth; normal incidence of uniform plane waves on good conductors. Prerequisite: MATH 250, PHYSICS 250, Pre-/Co- requisite: ECE341 or ECE401H.

4 hrs

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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

1 hr

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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.

3 hrs

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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.

1 hr

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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.

3 hrs

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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.

1 hr

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E&C-ENGR 330 Electronic Circuits

Semiconductor device physics, elementary analysis and design of integrated analog electronic circuits that utilize diodes, BJT's, and MOSFET's in current mirrors, differential amplifiers and multistage amplifiers with active loads and operational amplifiers. Prerequisite: E&C-ENGR 276 with a C or higher, Co-requisite: E&C-ENGR 331

4 hrs

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E&C-ENGR 331 Electronic Circuits Laboratory I

Semiconductor devices to include pn junction diodes, bipolar and field effect transistors. operational amplifiers and applications, diode circuit applications, current mirrors, differential amplifiers and amplifiers with active loads. Prerequisite: E&C-ENGR 378, Co-requisite: E&C-ENGR 330.

1 hr

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E&C-ENGR 341 Engineering Mathematics

Engineering Mathematics (3-4). Linear homogeneous and inhomogeneous differential equations, Laplace transform with applications; trigonometric and complex (exponential) Fourier series; Fourier transforms; Z-transforms; Matrices, properties and definitions; 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.

3-4 hrs

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E&C-ENGR 358 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. Offered: Every year; Winter.

3 hrs

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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.

3 hrs

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E&C-ENGR 376 Circuit Theory II

A continuation of E&C-ENGR 276. R-L-C transients responses, complex s-plane methods, resonance, frequency response, two-port networks, Laplace transforms for circuit analysis. Prerequisite: E&C-ENGR 378 concurrently.

3 hrs

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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.

2-3 hrs

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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 341, and E&C-ENGR 381 concurrently. Offered: Fall

4 hrs

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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. Offered: Fall

1 hr

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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.

1-4 hrs

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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.

1-4 hrs

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E&C-ENGR 401 AN Topics in electrical Engineering

1-4 hrs

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E&C-ENGR 401 AS Topics In Electrical Engineering**1-4 hrs**[back to top](#)**E&C-ENGR 401 CA Topics In Electrical Engineering****1-4 hrs**[back to top](#)**E&C-ENGR 401 CI Topics in Electrical Engineering****1-4 hrs**[back to top](#)**E&C-ENGR 401 DE Special Topics ECE****1-4 hrs**[back to top](#)**E&C-ENGR 401 FE Topics In Electrical Engineering****1-4 hrs**[back to top](#)**E&C-ENGR 401 H Topics In Electrical And Computer Engineering****1-4 hrs**[back to top](#)**E&C-ENGR 401 NN 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.

1-4 hrs[back to top](#)**E&C-ENGR 401 PE 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.

1-4 hrs[back to top](#)**E&C-ENGR 401 PG 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.

1-4 hrs[back to top](#)**E&C-ENGR 401 PL 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.

1-4 hrs[back to top](#)

E&C-ENGR 401 RB 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.

1-4 hrs

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E&C-ENGR 401 RD 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.

1-4 hrs

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E&C-ENGR 401 RS 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.

1-4 hrs

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E&C-ENGR 401 Topics in Electrical Engineering

1-4 hrs

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E&C-ENGR 401 WN 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.

1-4 hrs

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E&C-ENGR 401 XX 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.

1-4 hrs

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E&C-ENGR 402 WI 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 330, E&C-ENGR 380, and E&C-ENGR 428R. Must have passed the WEPT test and can only be taken if student is within three semesters of graduation.

2 hrs

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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.

3 hrs

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E&C-ENGR 403 WI 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.

3 hrs

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E&C-ENGR 412 R.F./Microwave Techniques For Wireless Systems

Fundamental concepts of electromagnetic radiation from Maxwell's equations; basic antenna parameters-gain, directivity, radiation & aperture efficiency, effective area, polarization; calculation of radiation patterns of linear antennas (proof omitted); electromagnetic boundary conditions; oblique incidence of plan waves; Snell's laws and polarizationsimilarities between traveling waves on transmission lines and plane waves; Friis formulas; antenna noise temperature; basic antennas-dipole and monopoles; simple array theory and beamforming concepts; propagation path loss-ground reflections; review of transmission lines & Smith Chart; quarter-wave transformers and L-section matching; single stub tuning; microwave network analysis-port-matrices; fundamentals of filter theory; low - and high-pass filters; scaling and transformations; cellular propagation and link loss prediction; 2-ray and 3-ray (optional) models; introduction to smart antenna concepts; WiMAX systems, introduction to and applications of the state of art r.f. CAD tools, but not necessarily restricted to, IE3D, FIDELITY, for simulation and modeling projects for the course. Prerequisites: E&C-ENGR 302, E&C-ENGR 380, E&C-ENGR 341 OR E&C-ENGR 401H, MATLAB proficiency.

3 hrs

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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

1 hr

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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, ECE 380, ECE 398 Restrictions: MATLAB proficiency required. Offered on demand

3 hrs

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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.

1 hr

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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. Offered: Winter

3 hrs

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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.

3 hrs

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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.

1 hr

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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. Offered: Fall

3 hrs

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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. Offered: Fall

1 hr

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E&C-ENGR 428 R 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

3 hrs

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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 226 and E&C-ENGR 227 Co-requisite: E&C-ENGR 428R

1 hr

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E&C-ENGR 430 Electronic Circuits II

Study of feedback amplifiers, regulated power supplies, sinusoidal and nonlinear oscillators, integrated circuit analog and digital devices, digital electronics. Prerequisite: E&C-ENGR 330. Offered: On demand.

3 hrs

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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.

3 hrs

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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 330.

3 hrs

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E&C-ENGR 454 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.

3 hrs

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E&C-ENGR 458 R 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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 460 Offered: On demand.

3 hrs

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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

3 hrs

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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 460 or E&C-ENGR 276, and E&C-ENGR 341 or E&C-ENGR 401H.

3 hrs

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E&C-ENGR 467 Power Systems II

Power system matrices. Power flow analysis. Gauss-Seidel and Newton-Raphson techniques. Fast-decoupled load flow. Economic dispatch. Voltage control system. Power system control. Prerequisites: E&C-ENGR 466 and E&C-ENGR 458.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 460, COMP-SCI 394R or equivalent.

3 hrs

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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: Senior standing

3 hrs

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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 380. Offered: Every year, Fall.

3 hrs

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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. Offered: On demand.

3 hrs

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E&C-ENGR 478 Modulation And Transmission Of Signals

Review of Fourier analysis of signals, study of signal transmission. Analog modulation and demodulation, use of nonlinear devices in modulation systems, sampling and pulse modulation systems, sampling and pulse modulation. Prerequisites: E&C-ENGR 330 and E&C-ENGR 380. On demand.

3 hrs

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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 226 and E&C-ENGR Offered: On demand.

3 hrs

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E&C-ENGR 481 Digital Signal Processing Laboratory

Laboratory for E&C-ENGR 480. Processing methods for discrete-time signals and digital filters. Prerequisites: E&C-ENGR 378 with E&C-ENGR 480 concurrently. Offered: On demand.

1 hr

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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.

3 hrs

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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.

1 hr

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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. Offered: On demand

3 hrs

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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
Offered: On demand.

3 hrs

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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

3 hrs

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E&C-ENGR 490 Digital Computer Applications In Engineering

Use of digital computers for the solution of engineering problems involving roots of equations, simultaneous equations, curve fitting, integration, differentiation, and differential equations. Prerequisites: MATH 250, E&C-ENGR 216 and junior standing in engineering. On demand.

3 hrs

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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.

6 hrs

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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

1-4 hrs

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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

1-4 hrs

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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

1-4 hrs

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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

1-3 hrs

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Information Technology (IT)

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

3 hrs

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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

1-3 hrs

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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 281 Offered: Winter

3 hrs

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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 201 and COMP-SCI 352. Cross listed as COMP-SCI 350, and COMP-SCI 490OS

3 hrs

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INFO-TEC 490 Special Topics

Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

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INFO-TEC 490 A Special Topics

Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

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INFO-TEC 490 C Special Topics

Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

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INFO-TEC 490 IT Special Topics

Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

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INFO-TEC 490 J Special Topics

Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

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INFO-TEC 490 Special Topics

Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

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INFO-TEC 490 NA Special Topics

Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

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INFO-TEC 490 NS Special Topics

Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

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INFO-TEC 490 SD Special Topics

Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

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INFO-TEC 490 WD Special Topics

Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

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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.

1-6 hrs

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Mechanical Engineering (ME)

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).

3 hrs

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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

3 hrs

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MEC-ENGR 130 L Engineering Graphics Lab

Supplemental lab instruction and assistance for MEC-ENGR 130.

0 hrs

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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.

1 hr

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MEC-ENGR 131 L Engineering Graphics 3D Design Lab

Supplemental lab instruction and assistance for MEC-ENGR 131

0 hrs

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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). Pre/corequisite: MEC-ENGR 111

3 hrs

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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

3 hrs

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MEC-ENGR 220 Electric Circuits

Introduction to electric circuits for civil and mechanical engineering students. Prerequisites: MEC-ENGR 219, PHYSICS 250
Corequisite MATH 345 Offered: Winter

3 hrs

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MEC-ENGR 285 Engineering Dynamics

Basic fundamentals of particle and rigid body dynamics; energy and momentum methods; computer use. Prerequisite: CIV-ENGR 275.

3 hrs

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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.

3 hrs

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MEC-ENGR 301 Fundamental Topics In Mechanical Engineering

Current and new technical developments in mechanical engineering. Prerequisite: instructor's consent.

3 hrs

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MEC-ENGR 301 Topics In Mechanical Engineering

3 hrs

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MEC-ENGR 306 Computer-Aided Engineering

Principles, analysis and application of numerical methods for the solution of engineering problems. Computer implementation. Prerequisites: MEC-ENGR 319 and MATH 345

3 hrs

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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

3 hrs

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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

3 hrs

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MEC-ENGR 324 Engineering Materials

The nature of the structure of engineering materials. The relationship of material structure to the physical properties. Mechanical behavior of engineering materials. Prerequisites: MEC-ENGR 299, CIV-ENGR 276 and CHEM 211.

4 hrs

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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

3 hrs

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MEC-ENGR 352 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, and MEC-ENGR 220.

3 hrs

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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; Co-requisite: MEC-ENGR 351

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 and MATH 345.

3 hrs

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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

0 hrs

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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: MATH 345, MEC-ENGR 319, MEC-ENGR 351 Pre/corequisite: MEC-ENGR 306

3 hrs

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MEC-ENGR 400 Problems

Special design, experimental and analytical problems in mechanical engineering.

1-6 hrs

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MEC-ENGR 401 Topics In Mechanical Engineering

Current and new technical developments in mechanical engineering. Prerequisite: instructor's consent.

1-3 hrs

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MEC-ENGR 401 BN Topics In Mechanical Engineering

1-3 hrs

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MEC-ENGR 401 Topics In Mechanical Engineering

1-3 hrs

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MEC-ENGR 401 FE Topics in Mechanical Engineering

1-3 hrs

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MEC-ENGR 401 M Topics In Mechanical Engineering

1-3 hrs

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MEC-ENGR 401 P Topics In Mechanical Engineering

1-3 hrs

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MEC-ENGR 401 SA Topics In Mechanical Engineering

1-3 hrs

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MEC-ENGR 401 V Topics In Mechanical Engineering

1-3 hrs

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MEC-ENGR 401 X Topics in Mechanical Engineering

Current and new technical developments in mechanical engineering. Prerequisite: instructor's consent.

1-3 hrs

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MEC-ENGR 411 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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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MEC-ENGR 424 Non-Metallic Engineering Materials

Structures, properties and applications of ceramics, glasses, cermets, polymers and composite materials. Prerequisite: MEC-ENGR 324.

3 hrs

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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.

3 hrs

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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

3 hrs

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MEC-ENGR 441 Intermediate Fluid Mechanics

Topics in potential and viscous flow theory, and computational fluid dynamics. Prerequisite: MEC-ENGR 351.

3 hrs

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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.

3 hrs

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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

3 hrs

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MEC-ENGR 449 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. Crosslisted as CIV-ENGR 449 Prerequisite: Junior standing within the degree program Offered: Winter

3 hrs

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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.

3 hrs

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MEC-ENGR 452 Advanced Mechanics Of Materials

Analysis of more complicated problems in stresses and strains. Prerequisite: CIV-ENGR 276.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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MEC-ENGR 456 WI 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: MEC-ENGR 380, MEC-ENGR 385, MEC-ENGR 130, WEPT passed

3 hrs

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MEC-ENGR 457 Microcomputer Control Of Mechanical Systems

Synergistic combination of control, sensors, actuators, electronics, computers, and real-time programming. Actuator and computer fundamentals; logic devices; electronic components including transistors, operational amplifiers; and power amplifiers; interface design and control programming. Prerequisites: MEC-ENGR 362 and MEC-ENGR 415

3 hrs

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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.

3 hrs

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MEC-ENGR 460 Electromechanical Conversion

Magnetic circuitry in general and in machinery; DC machine theory, operation application; transformer circuits, synchronous machine theory, operation application: basic principles of energy conversion; use of matrices; basic principles of power transmission and control.

3 hrs

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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

3 hrs

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MEC-ENGR 466 Applied Optimization And Decision Modeling

Introduction to mathematical programming techniques and applications. Linear and integer programming, transportation models, multiple objective and goal programming. Prerequisite: MEC-ENGR 306

3 hrs

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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.

3 hrs

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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

3 hrs

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MEC-ENGR 484 Vibration Analysis

Vibration theory with application to mechanical systems. Prerequisites: MEC-ENGR 385

3 hrs

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MEC-ENGR 486 Introduction To Finite Element Methods

The application of matrix operations, energy concepts and structural mechanics to the development of the finite element method. Application of finite element methods to beams, frames and trusses. Prerequisites: MEC-ENGR 306, MEC-ENGR 324, MEC-ENGR 385, MEC-ENGR 399

3 hrs

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MEC-ENGR 491 Internship

For International students who must register for 1 credit hour to cover off-campus employment which is approved as related to their degree by their departmental advisor and ISAO

6 hrs

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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.

3 hrs

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MEC-ENGR 496 WI 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

4 hrs

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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

3 hrs

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Conservatory of Music & Dance

Conservatory Courses Bassoon

BASSOON 100 A 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.

2 hrs

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BASSOON 100 B 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.

2 hrs

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BASSOON 100 C 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.

2 hrs

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BASSOON 100 D Applied Study For The Non-Music Major

Nine one-half hour lessons. No jury required.

1 hr

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BASSOON 101 Freshman Bassoon I

2-4 hrs

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BASSOON 102 Freshman Bassoon II

2-4 hrs

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BASSOON 201 Sophomore Bassoon I

2-4 hrs

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BASSOON 202 Sophomore Bassoon II

2-4 hrs

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BASSOON 301 Junior Bassoon I

2-4 hrs

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BASSOON 302 Junior Bassoon II

2-4 hrs

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BASSOON 401 Senior Bassoon I**2-4 hrs**[back to top](#)**BASSOON 402 Senior Bassoon II****2-4 hrs**[back to top](#)

Cello

CELLO 100 A 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.

2 hrs[back to top](#)**CELLO 100 B 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.

2 hrs[back to top](#)**CELLO 100 C 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.

2 hrs[back to top](#)**CELLO 100 D Applied Study For The Non-Music Major**

Nine one-half hour lessons. No jury required.

1 hr[back to top](#)**CELLO 101 Freshman Cello I****2-4 hrs**[back to top](#)**CELLO 102 Freshman Cello II****2-4 hrs**[back to top](#)**CELLO 201 Sophomore Cello I****2-4 hrs**[back to top](#)**CELLO 202 Sophomore Cello II****2-4 hrs**[back to top](#)

CELLO 301 Junior Cello I**2-4 hrs**[back to top](#)**CELLO 302 Junior Cello II****2-4 hrs**[back to top](#)**CELLO 401 Senior Cello I****2-4 hrs**[back to top](#)**CELLO 402 Senior Cello II****2-4 hrs**[back to top](#)

Clarinet

CLARINET 100 A 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.

2 hrs[back to top](#)**CLARINET 100 B 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.

2 hrs[back to top](#)**CLARINET 100 C 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.

2 hrs[back to top](#)**CLARINET 100 D Applied Study For The Non-Music Major**

Nine one-half hour lessons. No jury required.

1 hr[back to top](#)**CLARINET 101 Freshman Clarinet I****2-4 hrs**[back to top](#)**CLARINET 102 Freshman Clarinet II****2-4 hrs**[back to top](#)

CLARINET 201 Sophomore Clarinet I**2-4 hrs**[back to top](#)**CLARINET 202** Sophomore Clarinet II**2-4 hrs**[back to top](#)**CLARINET 301** Junior Clarinet I**2-4 hrs**[back to top](#)**CLARINET 302** Junior Clarinet II**2-4 hrs**[back to top](#)**CLARINET 401** Senior Clarinet I**2-4 hrs**[back to top](#)**CLARINET 402** Senior Clarinet II**2-4 hrs**[back to top](#)

Conservatory

CONSVTY 101 C 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.

2 hrs[back to top](#)**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.

2 hrs[back to top](#)**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.

2 hrs[back to top](#)**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

2 hrs[back to top](#)

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.

2 hrs

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CONSVTY 110 Keyboard Skills I

Group instruction in beginning techniques of reading, harmonization, transposition, and improvisation, including an introduction to MIDI technology.

2 hrs

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CONSVTY 114 Piano Sight-Reading I

Laboratory practice in sight-reading for piano majors.

1 hr

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CONSVTY 115 Piano Sight-Reading II

Continuation of CONSVTY 114.

1 hr

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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.

3 hrs

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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.

3 hrs

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CONSVTY 122 Music Theory II

Continuation of CONSVTY 121. Prerequisite: CONSVTY 121 or equivalent.

3 hrs

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CONSVTY 123 Keyboard Skills II

Group instruction in intermediate-level reading, harmonization, transposition, accompaniments, and improvisation in a variety of styles. Introductory techniques in MIDI technology are also included.

2 hrs

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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.

3 hrs

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CONSVTY 126 Introduction to World Music

An introduction to global music traditions and their cultural contexts. Open to all students.

3 hrs

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CONSVTY 127 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.

3 hrs

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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 roll of music therapy in various settings.

1 hr

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CONSVTY 129 A Ear Training And Solfege

Study of tonal aural problems and rhythms. Introduction to movable do solfege.

1 hr

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CONSVTY 129 B Ear Training And Solfege

Continuation of CONSVTY 129A. Prerequisite: CONSVTY 129A.

1 hr

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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.

3 hrs

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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.

3 hrs

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CONSVTY 133 A 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.

2 hrs

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CONSVTY 133 B 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.

3 hrs

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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.

3 hrs

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CONSVTY 134 A 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.

2 hrs

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CONSVTY 134 B 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.

3 hrs

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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.

3 hrs

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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.

1 hr

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CONSVTY 154 A 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.

1 hr

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CONSVTY 160 Wind And Percussion Laboratory

Designed for the student working at a beginning level of performance on wind and/or percussion instruments. Instruction will focus on basic playing techniques and pedagogical issues. Enrollment for credit not required if student is concurrently enrolled in CONSVTY 373 (C,D,E,F,H, OR I), CONSVTY 381, CONSVTY 383, or CONSVTY 386. Prerequisite(s): Permission of instructor.

1 hr

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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.

1 hr

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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.

2 hrs

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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.

2 hrs

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CONSVTY 180 Music In Special Education

Class demonstration and participation in the use of music materials for handicapped children.

3 hrs

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CONSVTY 185 A Foreign Language For Singing I

A course for English and Latin diction for oratorio performance with detailed study of the International Phonetic Alphabet. Required for BM voice.

2 hrs

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CONSVTY 185 B Foreign Language For Singing II

A course for Italian diction. Emphasis is placed on sung rather than conversational pronunciation. Required for BM voice.

2 hrs

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CONSVTY 185 C Foreign Language For Singing III

A course for German diction. Emphasis is placed on sung rather than conversational pronunciation. Required for BM voice.

2 hrs

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CONSVTY 185 D Foreign Language For Singing Iv

A course for French diction. Emphasis is placed on sung rather than conversational pronunciation. Required for BM voice.

2 hrs

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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.

1 hr

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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.

3 hrs

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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.

3 hrs

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CONSVTY 204 Jazz Improvisation II

Prerequisite: CONSVTY 104 or consent of the instructor.

2 hrs

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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.

2 hrs

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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.

1 hr

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CONSVTY 210 A Clinical Experience: I

Must be taken concurrently with CONSVTY 260

1 hr

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CONSVTY 210 B Clinical Experience: II

Primarily assists the site coordinator with some leadership responsibilities.

1 hr

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CONSVTY 210 C Clinical Experience: III

Equal assisting and leading responsibilities on-site

1 hr

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CONSVTY 210 D Clinical Experience: Iv

Some assisting and primarily leading responsibilities on-site.

1 hr

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CONSVTY 210 Clinical Experience: V

Must be taken concurrently with CONSVTY 408

1 hr

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CONSVTY 210 F Clinical Experience Vi

Must be taken concurrently with CONSVTY 409.

1 hr

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CONSVTY 214 Piano Sight-Reading III

Laboratory practice in sight-reading for piano majors. Prerequisite: CONSVTY 115.

1 hr

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CONSVTY 215 Piano Sight-Reading IV

Laboratory practice in sight-reading for piano majors. Prerequisite: CONSVTY 214.

1 hr

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CONSVTY 221 Music Theory III

Continuation of CONSVTY 122. Introduction to nineteenth century harmony. Prerequisite: CONSVTY 122.

3 hrs

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CONSVTY 222 A 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.

3 hrs

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CONSVTY 223 Keyboard Skills III

Group instruction in advanced techniques of reading, harmonization, transposition, and improvisation, with extended-range accompaniments. Techniques for practicing using MIDI technology are also included.

2 hrs

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CONSVTY 229 A Ear Training And Solfege

Continuation of CONSVTY 129B. Prerequisite: CONSVTY 129B.

1 hr

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CONSVTY 229 B Ear Training And Solfege

Continuation of CONSVTY 229A. Prerequisite: CONSVTY 229A.

1 hr

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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).

3 hrs

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CONSVTY 233 A 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.

2 hrs

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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).

3 hrs

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CONSVTY 234 A 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.

2 hrs

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CONSVTY 235 Techniques Of Electronic Music I: Digital Audio

CONSVTY 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

3 hrs

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CONSVTY 236 Techniques Of Electronic Music II: MIDI

CONSVTY 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

3 hrs

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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

3 hrs

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CONSVTY 270 Marching Band Technique

A study of organization and formations involved for use with varsity and military bands.

1 hr

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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.

3 hrs

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CONSVTY 301 B Men's Chorus

1 hr

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CONSVTY 301 C Bella Voce

1 hr

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CONSVTY 301 D Connection

1 hr

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CONSVTY 301 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.

1 hr

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CONSVTY 301 G 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.

1 hr

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CONSVTY 301 H Musica Nova

1 hr

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CONSVTY 302 Orchestra

Required of all qualified music majors and open to all interested students by audition.

2 hrs

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CONSVTY 303 B Jazz Band

1 hr

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CONSVTY 303 C Percussion Ensemble

1 hr

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CONSVTY 303 D Accordion Orchestra

1 hr

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CONSVTY 303 Jazz Workshop

Prerequisite: Consent of the instructor.

1 hr

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CONSVTY 303 G Jazz Orchestra

1 hr

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CONSVTY 304 Jazz Improvisation III

Prerequisite: CONSVTY. 204 or consent of the instructor.

2 hrs

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CONSVTY 305 A 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.

1 hr

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CONSVTY 305 B 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.

1 hr

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CONSVTY 305 C 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.

1 hr

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CONSVTY 305 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.

1 hr

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CONSVTY 305 G 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.

1 hr

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CONSVTY 305 H Chamber Orchestra

1 hr

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CONSVTY 305 J Chamber Music Guitar

1 hr

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CONSVTY 306 A Conservatory Wind Ensemble

2 hrs

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CONSVTY 306 C 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.

2 hrs

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CONSVTY 307 A Canticum Novum

1 hr

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CONSVTY 307 B Conservatory Chorale

2 hrs

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CONSVTY 308 A Conservatory Concert Choir

1 hr

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CONSVTY 309 Audio Recording III

Continuation of study of recording techniques and music production skills. Prerequisite: CONSVTY 203.

3 hrs

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CONSVTY 310 Keyboard Skills Iv

Group instruction designed to fulfill the Piano Proficiency requirement. Students are required to demonstrate sight reading, harmonization, transposition, ear playing, improvisation, and accompanying skills at advanced levels. Midi technology is used with each of the skill requirements.

2 hrs

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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

2 hrs

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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.

2 hrs

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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.

1 hr

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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.

1 hr

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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

2 hrs

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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).

1 hr

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CONSVTY 320 Music Theatre Role Performance

Perpetration, 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).

1 hr

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CONSVTY 323 Form And Analysis I

Application of theoretical principles of analysis to Western Art music. Prerequisite: CONSVTY 221.

2 hrs

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CONSVTY 325 Piano Pedagogy I

Survey of beginning methods and materials. Introduction to learning theories and teaching strategies for individual and group instruction.

2 hrs

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CONSVTY 325 A Piano Pedagogy - Supervised Teaching I

Supervised practicum includes evaluation of teacher effectiveness and student musical growth. Must be taken concurrently with CONSVTY 325.

1 hr

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CONSVTY 326 Piano Pedagogy II

Comparison and evaluation of selected method series. Survey of elementary repertoire. Continuing study of the learning process. Philosophical and business aspects of the teaching profession. Prerequisite: CONSVTY 325.

2 hrs

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CONSVTY 326 A Piano Pedagogy - Supervised Teaching II

Supervised individual and group teaching. Must be taken concurrently with CONSVTY 326. Prerequisite: CONSVTY 325A.

1 hr

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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.

2 hrs

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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.

3 hrs

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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: CONSVTY. 222 or CONSVTY 222B or consent of an instructor or Music theory I-IV.

2 hrs

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CONSVTY 331 A 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.

3 hrs

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CONSVTY 333 Advanced Composition

Prerequisites: CONSVTY 222 or CONSVTY 222B and CONSVTY 234 or consent of the instructor. May be repeated for credit.

3 hrs

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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 and 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.

3 hrs

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CONSVTY 349 Jazz Style And Analysis

This class will be an in-depth study of the contributions of one or a select group of outstanding jazz composers, arrangers, performers, focusing on the solo and compositional output and specific innovations associated with that individual or group. May repeat for credit. Content will vary from semester to semester. Prerequisite: CONSVTY 353A History and Development of Jazz I

2 hrs

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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.

3 hrs

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CONSVTY 351 WI 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.

3 hrs

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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.

3 hrs

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CONSVTY 352 WI 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

3 hrs

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CONSVTY 353 A 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.

3 hrs

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CONSVTY 353 B History And Development Of Jazz II

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. Prerequisite: CONSVTY 353A and consent of the instructor.

3 hrs

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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.

1 hr

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CONSVTY 358 Band Literature

Includes listening and analysis as they relate to programming and educational issues in wind/percussion ensemble settings. May be repeated for credit. Prerequisites: CONSVTY 381 or permission of instructor.

2 hrs

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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.

1 hr

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CONSVTY 360 Introduction To Jazz, Improvisation, And Popular Styles

A laboratory course for music students which includes a review of the basic history and concepts of jazz and other popular musical styles as well as an introduction to improvisational techniques.

1 hr

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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).

2 hrs

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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

1 hr

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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.

2 hrs

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CONSVTY 373 A Instrumental Techniques Violin-Viola

1 hr

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CONSVTY 373 B Instrumental Techniques Cello-Double Bass

1 hr

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CONSVTY 373 C Instrumental Techniques Flute And Clarinet

1 hr

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CONSVTY 373 D Instrumental Techniques Trumpet-Horn

1 hr

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CONSVTY 373 Instrumental Techniques Percussion

1 hr

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CONSVTY 373 F Instrumental Techniques Oboe-Bassoon

1 hr

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CONSVTY 373 G Instrumental Techniques Guitar

1 hr

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CONSVTY 373 H Instrumental Techniques Trombone-Tuba

1 hr

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CONSVTY 373 I Instrumental Techniques Saxophone-Wind Review

1 hr

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CONSVTY 373 N Survey Of Wind And Percussion Instruments

An overview of basic wind and percussion instruments used in public school settings. Includes embouchre formation, hand position, sound production, and pedagogical issues encountered in beginning situations.

1 hr

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CONSVTY 373 P 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.

1 hr

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CONSVTY 375 A 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.

1 hr

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CONSVTY 375 B Special Percussion Methods For Dance Students

A class of percussion techniques which stresses hand drumming skills and advanced rhythmic counting and analysis.
Prerequisites: None.

1 hr

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CONSVTY 376 Accompanying I

A course for piano majors designed to give experience in accompanying vocal and instrumental soloists and choral groups as well as experience in the keyboard skills of open score reading, transposition, harmonization, and reading of figured bass. Course includes lectures by members of the voice and instrumental faculty. Two class sessions and two hours of assigned accompanying per week.

2 hrs

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CONSVTY 377 Accompanying II

Continuation of CONSVTY 376.

2 hrs

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CONSVTY 378 Band Ensemble Techniques

Laboratory applications of wind/percussion 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 pedagogical issues. Prerequisites: CONSVTY 381 and completion of large ensemble requirement or permission of instructor.

2 hrs

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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.

1 hr

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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.

2 hrs

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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.

2 hrs

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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.

2 hrs

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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.

2 hrs

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CONSVTY 385 Elementary Music Methods For Music Majors

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. Prerequisite: CONSVTY 222A or CONSVTY 222B.

3 hrs

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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. To be taken concurrently with CONSVTY 383.

2 hrs

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CONSVTY 387 Secondary Music Methods - Choral

The organization of junior and senior high school choral classes to include methods, materials and program building. To be taken concurrently with CONSVTY 382.

2 hrs

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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.

3 hrs

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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 places on solo construction and development of individual styles. Prerequisite: CONSVTY 304 Jazz Improvisation III or consent of the instructor.

2 hrs

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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.

3 hrs

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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 consent of the instructor.

3 hrs

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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.

1-3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

1-4 hrs

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CONSVTY 411 A 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. Prerequisite: Permission of faculty

1 hr

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CONSVTY 411 B 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

1 hr

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CONSVTY 411 C 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

1 hr

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CONSVTY 412 A 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

4-12 hrs

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CONSVTY 412 B 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

4-12 hrs

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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.

2 hrs

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CONSVTY 417 A 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.

2 hrs

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CONSVTY 417 B 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.

2 hrs

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CONSVTY 417 C 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).

2 hrs

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CONSVTY 417 D 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 may be 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.)

2 hrs

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CONSVTY 417 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.

2 hrs

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CONSVTY 417 F 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.

2 hrs

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CONSVTY 421 A 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.

1-3 hrs

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CONSVTY 421 B 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.

1-3 hrs

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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.

3 hrs

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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.

3 hrs

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CONSVTY 425 A 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.

2 hrs

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CONSVTY 425 B Arranging Instrumental

Prerequisite: CONSVTY 222 or CONSVTY 222B or recommendation of an instructor of Music Theory I-IV.

2 hrs

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CONSVTY 426 B 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-dept 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.

2 hrs

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CONSVTY 426 D 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

2 hrs

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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.

2 hrs

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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

3 hrs

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CONSVTY 431 Orchestration III

A course for composition majors. A detailed study of the scores of Debussy, Ravel, Bartok, Stravinsky, Berg, and others, with their application. Combining the full orchestral forces with voices, solo and choral. May be repeated for credit. Prerequisite: CONSVTY 331A or consent of the instructor.

2 hrs

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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.

3 hrs

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CONSVTY 434 CC 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 areas - Arts; Science/Social Science/Business/Law; and Humanities/Education/General Studies.

3 hrs

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CONSVTY 435 Psychological Foundations Of Music

The study of the psychological aspects of music including perception, cognition, affect, and preference. An introduction measurement and experimental research including statistical techniques. Prerequisite: CONSVTY 260 or permission of instructor

3 hrs

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CONSVTY 437 Computer Literacy For Music Teachers

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.

3 hrs

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CONSVTY 440 Jazz Keyboard Techniques I

Class piano study of accompanying in basic jazz styles; technique (arpeggiated seventh chords, major, minor and diminished); scales (pentatonic, dorian, phrygian, lydian, mixolydian); advanced harmonizations and resolutions in all major keys; modulations from full diminished seventh chords; introduction to American song literature for sight reading and performance (Arlen, Ellington, Gershwin, etc.); harmonization at sight from chord sheets. Prerequisite: Completion of piano proficiency or consent of instructor.

2 hrs

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CONSVTY 441 Jazz Keyboard Techniques II

A continuation of CONSVTY 440. Prerequisite: CONSVTY 440 or consent of the instructor.

2 hrs

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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.

2 hrs

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CONSVTY 449 A 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.

1 hr

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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.

2 hrs

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CONSVTY 458 Vocal Literature II

A continuation of CONSVTY 457.

2 hrs

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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.

3 hrs

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CONSVTY 461 Piano Literature III (Romantic)

A survey through analysis, reading, listening, and performance of piano repertoire during the Romantic Period, culmination in the early 20th Century.

2 hrs

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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.

2 hrs

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CONSVTY 464 A Wind And Percussion Literature Percussion

A study of solo and ensemble literature for percussion.

2 hrs

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CONSVTY 469 Organ Literature II

A survey of organ music from 1750 to the present.

2 hrs

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CONSVTY 470 A Introduction To Pedagogy And Literature Woodwinds

A study of teaching techniques and materials and of solo and ensemble literature. Senior status required.

3 hrs

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CONSVTY 470 B Introduction To Pedagogy And Literature Brass

A study of teaching techniques and materials and of solo and ensemble literature. Senior status required.

3 hrs

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CONSVTY 470 C Introduction To Pedagogy And Literature Percussion

A study of teaching techniques and materials and of solo and ensemble literature. Senior status required.

3 hrs

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CONSVTY 470 D Introduction To String Literature And Pedagogy

A study of teaching techniques and materials and solo and ensemble literature. Senior status required.

3 hrs

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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.

2 hrs

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CONSVTY 476 Accompanying III

A course for piano majors designed to give experience in accompanying vocal and instrumental soloist and choral groups. One-hour class sessions and two hours of assigned accompanying per week.

1 hr

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CONSVTY 477 Accompanying Iv

Continuation of CONSVTY 476.

1 hr

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CONSVTY 483 Advanced Instrumental Conducting

A review of techniques and musical styles of literature for all levels and all media through conducting in class.

2 hrs

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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.

1-3 hrs

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CONSVTY 491 B Pedagogical Practices I Voice

2 hrs

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CONSVTY 491 C Pedagogical Practices I Organ

2 hrs

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CONSVTY 491 K Pedagogical Practices I Theory

3 hrs

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CONSVTY 491 M 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.

3 hrs

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CONSVTY 492 B 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

2 hrs

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CONSVTY 492 C Pedagogical Practices II Organ

1 hr

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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.

2 hrs

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CONSVTY 495 Advanced Piano Pedagogy I

Study of basic pedagogical philosophies, objectives, and procedures of various music educators/programs. Psychological factors in the learning/teaching process. Survey of late elementary and early intermediate repertoire and materials. Prerequisite: CONSVTY 326 or consent of the instructor.

2 hrs

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CONSVTY 495 A Advanced Piano Pedagogy - Supervised Teaching III

Supervised individual and group teaching. Must be taken concurrently with CONSVTY 495. Prerequisite: CONSVTY 326 or consent of the instructor.

1 hr

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CONSVTY 496 Advanced Piano Pedagogy II

Continuing study of intermediate repertoire with emphasis on performance. Seminars with master teachers. Supervised individual and group teaching. Prerequisite: CONSVTY 495 or consent of the instructor.

2 hrs

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CONSVTY 496 A Advanced Piano Pedagogy - Supervised Teaching Iv

Supervised individual and group teaching. Must be taken concurrently with CONSVTY 496. Prerequisite: CONSVTY 495 or consent of the instructor.

1 hr

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CONSVTY 497 Seminar-Workshop In Music

Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

1-4 hrs

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CONSVTY 497 AM American Music Company Choral Reading Sessions

1-4 hrs

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CONSVTY 497 AT Seminar-Workshop In Music

1-4 hrs

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CONSVTY 497 CE Seminar-Workshop In Music

1-4 hrs

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CONSVTY 497 GA Seminar-Workshop In Music

Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

1-4 hrs

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CONSVTY 497 Seminar-Workshop In Music

Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

1-4 hrs

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CONSVTY 497 Seminar - Workshop in Music

Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

1-4 hrs

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CONSVTY 497 HA Seminar Workshop in Music

1-4 hrs

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CONSVTY 497 Seminar Workshop in Music

Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

1-4 hrs

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CONSVTY 497 IN Seminar-Workshop In Music

Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

1-4 hrs

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CONSVTY 497 JB Seminar-Workshop In Music: Music History Review (Late)

1-4 hrs

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CONSVTY 497 Seminar - Workshop in Music

Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

1-4 hrs

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CONSVTY 497 OU Seminar-Workshop In Music

1-4 hrs

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CONSVTY 497 PC Seminar-Workshop In Music

1-4 hrs

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CONSVTY 497 PI SEMINAR WKSHP IN MUSIC

1-4 hrs

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CONSVTY 497 PL Seminar Workshop In Music

1-4 hrs

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CONSVTY 497 PO Seminar Workshop In Music

1-4 hrs

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CONSVTY 497 PP Seminar Workshop In Music

1-4 hrs

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CONSVTY 497 SA Seminar-Workshop In Music

1-4 hrs

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CONSVTY 497 SI Seminar-Workshop In Music

1-4 hrs

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CONSVTY 497 SV Seminar-Workshop In Music

1-4 hrs

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CONSVTY 497 TE Orff Schulwerk Level I & II

1-4 hrs

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CONSVTY 497 WE Seminar-Workshop In Music

1-4 hrs

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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.

2 hrs

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CONSVTY H120 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.

3 hrs

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Dance

DANCE 106 Computer Technology for Dance

This course will not only give basic computer knowledge but will give students the tools to visualize and chronicle dance steps or entire routines in as easy-to-use 3D environment. The students will use these tools to create choreography and to inform interdisciplinary arts and dance technology projects that will be implemented into the Advanced Composition course. Prerequisite: DANCE 218A Composition I.

3 hrs

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DANCE 107 Dance Production I

A study of the fundamentals of dance production including planning and organization, programming and publicity, lighting design for dance, sound and recording techniques, costume design and construction, and stage make-up. Laboratory projects will be coordinated with actual dance productions.

2 hrs

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DANCE 108 Dance Production II

Continuation of CONSVTY 107.

2 hrs

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DANCE 140 A 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. Restricted to dance majors.

1 hr

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DANCE 140 B Analysis Of Movement For The Dance II

Continuation of CONSVTY 140A.

1 hr

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DANCE 141 B Ballet Technique And Theory I

Fundamentals of classical ballet including beginning pointe work. Non-Majors by audition.

3 hrs

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DANCE 141 M Modern Dance Technique And Theory I

Techniques of Contemporary dance. Non-Majors by audition.

3 hrs

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DANCE 142 B Ballet Technique And Theory II

Continuation of DANCE 141B.

3 hrs

[back to top](#)

DANCE 142 M Modern Dance Technique And Theory II

Techniques of Contemporary dance. Non-Majors by audition.

3 hrs

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DANCE 213 C 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.

1 hr

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DANCE 213 D Men's Class II

Continuation of DANCE 213A.

1 hr

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DANCE 217 A Improvisation I

An introduction to the use of Improvisation as a method of discovering through problem-solving a kinesthetic body language through immediate and logical motile responses to given problems involving a body or bodies as they relate to time, space, energy, and force. For Dance majors.

1 hr

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DANCE 217 B Improvisation II

The continued study of the use of improvisation as a learned skill which can be used as a vehicle for finding precompositional movement material used in making dances. For Dance majors.

1 hr

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DANCE 218 A Composition I

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. For Dance majors.

2 hrs

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DANCE 218 B Composition II

The continued exploration of the fundamentals of choreography including locomotion studies, categories of motion, axial movement and sequential and non-sequeter movement. Prerequisite: DANCE 218A.

2 hrs

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DANCE 241 B Ballet Technique And Theory III

Continuation of DANCE 141B, DANCE 142B on the intermediate level including Beginning Pas de Deux.

3 hrs

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DANCE 241 M Modern Dance Technique And Theory III

Continuation of DANCE 141M, on the intermediate level.

3 hrs

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DANCE 242 B Ballet Technique And Theory Iv

Continuation of DANCE. 141B, DANCE 142B on the intermediate level including Beginning Pas de Deux.

3 hrs

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DANCE 242 M Modern Technique And Theory Iv

Continuation of DANCE 142M, on the intermediate level.

3 hrs

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DANCE 250 Labanotation I

An introduction to basic theory and elementary skills of labanotation.

2 hrs

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DANCE 260 Jazz I

A study of Western Theatrical Dance focusing on Jazz and Musical Theater dance forms.

1 hr

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DANCE 261 Jazz II

The continued study of Western Theatrical Dance focusing on Jazz and Musical Theater dance forms.

1 hr

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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. Three hours lecture per week. Prerequisites: Dance major.

3 hrs

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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(s) DANCE 301 Advanced Movement Analysis for Dancers.

1 hr

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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

1 hr

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DANCE 305 History Of Dance I

A study of the development of Western Theatrical Dance from the Renaissance Court Dances to 20th Century contemporary ballet. Outside reading and written reports required. Offered: Fall.

3 hrs

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DANCE 306 History Of Dance II

A study of the development of Modern Dance from the late 19th Century through the 20th Century. Outside reading and written reports required. Offered: Winter.

3 hrs

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DANCE 309 B 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 directed by resident faculty and guest choreographers.

1 hr

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DANCE 310 A Pirouette Class I

This course is designed to teach and develop the technical skills needed for turns. It will be offered for 200-400 level dance students and will focus on intermediate and advanced turns and turn combinations. This specialized class will allow the student to focus and work on turning techniques and identify problem areas such as spotting, balance, force and control. Prerequisites: DANCE 241B (ballet) or DANCE 241M (modern) or higher

1 hr

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DANCE 310 B Pirouette Class II

Continuation of DANCE 310A. Prerequisites: DANCE241B (ballet) or DANCE 241M (modern) or higher.

1 hr

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DANCE 313 A Partnering/Pas De Deux I

This course is designed to meet the needs of the 300 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.

1 hr

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DANCE 313 B Partnering/Pas De Deux II

Continuation of DANCE 313A. Prerequisites: DANCE 341B Ballet Technique and Theory V or higher.

1 hr

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DANCE 316 A Performance Techniques I

A four-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 and jazz styles.

1 hr

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DANCE 316 B Performance Techniques II

A four-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 and jazz styles.

1 hr

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DANCE 319 A Composition III

An intermediate course in Dance Composition focusing on choreographing works through the exploration of movement such as theme and variation, gesture, chance dance, poetry and narration, costume and musical forms as structural frameworks for making dances. Prerequisite: DANCE 218B.

2 hrs

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DANCE 319 B Composition IV

A continuation of the intermediate course in Dance Composition focusing on choreographing solo and group works in the Ballet and Modern idioms, as well as preparation of works for the senior recital. Prerequisite: DANCE 319A.

2 hrs

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DANCE 341 B Ballet Technique And Theory V

Continuation of DANCE 242B on the advanced level. (Modern emphasis students - minimum of 3 classes weekly required (MWF) (2 hrs.).

3 hrs

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DANCE 341 M Modern Dance Technique And Theory V

Continuation of DANCE 242M on the advanced level. (Ballet emphasis students - minimum of 3 classes weekly required (MWF) 2 hrs.)

3 hrs

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DANCE 342 B Ballet Technique And Theory Vi

Continuation of DANCE 341B.

3 hrs

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DANCE 342 M Modern Dance Technique And Theory Vi

Continuation of DANCE 341M.

3 hrs

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DANCE 403 A Modern Technique For Non-Majors

1 hr

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DANCE 404 A Ballet Technique Non-Majors I

The applied and theoretical study of ballet including ballet pedagogy, analysis of movement and traditional ballet vocabulary. Outside reading and written reports required.

1 hr

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DANCE 404 B Ballet Technique For Non-Majors II

The applied and theoretical study of ballet, including ballet pedagogy, analysis of movement, and traditional ballet vocabulary. Outside reading and written reports required.

1 hr

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DANCE 405 A 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

1 hr

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DANCE 405 B Modern Dance Repertory II

Continuation of DANCE 405A. Prerequisites: DANCE 341M Modern Dance Technique and Theory V or higher.

1 hr

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DANCE 405 C Modern Dance Repertory III

Continuation of DANCE 405B. Prerequisite(s): DANCE 341M Modern Dance Technique and Theory V or higher.

1 hr

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DANCE 405 D Modern Dance Repertory IV

Continuation of DANCE 405C. Prerequisite(s): DANCE 341M Modern Dance Technique and Theory V or higher.

1 hr

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DANCE 413 A Advanced Pas De Deux I

This course is designed to meet the needs of the 400 level ballet student and will teach advanced pas de deux skills. The students will have opportunity to learn pas de deux from great ballets which will give students a hands-on experience, perfecting their partnering skills. Prerequisites: DANCE 441B Ballet Technique and Theory VII or higher.

1 hr

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DANCE 413 B Advanced Pas De Deux II

Continuation of DANCE413A. Prerequisites: DANCE 441B Ballet Technique and Theory VII or higher.

1 hr

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DANCE 414 A Men's Variations I

Men's Variations is designed for 400 level male ballet dancers. 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 342B Ballet Techniques and Theory VI

1 hr

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DANCE 414 B Men's Variations II

Continuation of DANCE 414A Prerequisite: DANCE 342B Ballet Techniques and Theory VI

1 hr

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DANCE 415 A Variations I

Variations is designed for the 400 level ballet student. The course will teach female variations to the advanced students and the students will have the opportunity to learn and perform renowned variations from Romantic, Classical and Neo-Classical periods of ballet. The students will also work each class in traditional tutus 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

1 hr

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DANCE 415 B Variations II

Continuation of DANCE 415A. Prerequisites: DANCE 342B Ballet Technique and Theory IV

1 hr

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DANCE 415 C Variations III

Continuation of DANCE 415B. Prerequisite(s): DANCE 342B Ballet Technique and Theory VI or consent of instructor.

1 hr

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DANCE 415 D Variations IV

Continuation of DANCE415C.Prerequisite(s): DANCE 342B Ballet Technique and Theory VI or consent of instructor.

1 hr

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DANCE 416 A Performance Techniques III

A four-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 and jazz styles.

1 hr

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DANCE 416 B Performance Techniques IV

A four-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 and jazz styles.

1 hr

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DANCE 441 B Ballet Technique And Theory VII

Continuation of DANCE 342B on the advanced level. (Modern emphasis students - minimum of 3 classes per week required (MWF) 2 hrs.)

3 hrs

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DANCE 441 M Modern Dance Technique And Theory VII

Continuation of DANCE 243M on the advanced level. (Ballet emphasis students - minimum of 3 classes per week required. (MWF) 2 hrs.)

3 hrs

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DANCE 442 B Ballet Technique And Theory VIII

Continuation of DANCE 441B.

3 hrs

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DANCE 442 M Modern Dance Technique And Theory VIII

Continuation of DANCE 243M on the advanced level. (Ballet emphasis students - minimum of 3 classes per week required. (MWF) 2 hrs.)

3 hrs

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DANCE 493 Senior Recital I

The planning, organization and preparation for the requirements for Senior Recital including selection of repertoire, aspects of technical production and creation of original choreographic works in solo and group form.

1 hr

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DANCE 494 Senior Recital II

The culminating preparation and juried public performance in three dance forms including the completion, rehearsal and mounting of original choreographic works in solo and group form.

1 hr

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DANCE 497 CD Modern Dance Technique and Theory

3 hrs

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Euphonium

EUPHNM 100 A 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.

2 hrs

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EUPHNM 100 B 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.

2 hrs

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EUPHNM 100 C 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.

2 hrs

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EUPHNM 100 D Applied Study For The Non-Music Major

Nine one-half hour lessons. No jury required.

1 hr

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EUPHNM 101 Freshman Euphonium I

2-4 hrs

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EUPHNM 102 Freshman Euphonium II

2-4 hrs

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EUPHNM 201 Sophomore Euphonium I

2-4 hrs

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EUPHNM 202 Sophomore Euphonium II

2-4 hrs

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EUPHNM 301 Junior Euphonium I

2-4 hrs

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EUPHNM 302 Junior Euphonium II**2-4 hrs**[back to top](#)**EUPHNM 401 Senior Euphonium I****2-4 hrs**[back to top](#)**EUPHNM 402 Senior Euphonium II****2-4 hrs**[back to top](#)

Flute

FLUTE 100 A 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.

2 hrs[back to top](#)**FLUTE 100 B 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.

2 hrs[back to top](#)**FLUTE 100 C 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.

2 hrs[back to top](#)**FLUTE 100 D Applied Study For The Non-Music Major**

Nine one-half hour lessons. No jury required.

1 hr[back to top](#)**FLUTE 101 Freshman Flute I****2-4 hrs**[back to top](#)**FLUTE 102 Freshman Flute II****2-4 hrs**[back to top](#)**FLUTE 201 Sophomore Flute I****2-4 hrs**[back to top](#)

FLUTE 202 Sophomore Flute II**2-4 hrs**[back to top](#)**FLUTE 301 Junior Flute I****2-4 hrs**[back to top](#)**FLUTE 302 Junior Flute II****2-4 hrs**[back to top](#)**FLUTE 401 Senior Flute I****2-4 hrs**[back to top](#)**FLUTE 402 Senior Flute II****2-4 hrs**[back to top](#)

Guitar

GUITAR 100 A 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.

2 hrs[back to top](#)**GUITAR 100 B 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.

2 hrs[back to top](#)**GUITAR 100 C 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.

2 hrs[back to top](#)**GUITAR 100 D Applied Study For The Non-Music Major**

Nine one-half hour lessons. No jury required.

1 hr[back to top](#)**GUITAR 101 Freshman Guitar I****2-4 hrs**[back to top](#)

GUITAR 102 Freshman Guitar II

2-4 hrs

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GUITAR 201 Sophomore Guitar I

2-4 hrs

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GUITAR 202 Sophomore Guitar II

2-4 hrs

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GUITAR 301 Junior Guitar I

2-4 hrs

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GUITAR 301 J Junior Guitar I (Jazz)

2 hrs

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GUITAR 302 Junior Guitar II

2-4 hrs

[back to top](#)

GUITAR 302 J Junior Guitar II (Jazz)

2 hrs

[back to top](#)

GUITAR 401 Senior Guitar I

2-4 hrs

[back to top](#)

GUITAR 401 J Senior Guitar I (Jazz)

2 hrs

[back to top](#)

GUITAR 402 Senior Guitar II

2-4 hrs

[back to top](#)

GUITAR 402 J Senior Guitar II (Jazz)

2 hrs

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Harp

HARP 101 Freshman Harp I

1-4 hrs

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HARP 201 Sophomore Harp I**1-4 hrs**[back to top](#)**HARP 202 Sophomore Harp II****1-4 hrs**[back to top](#)**HARP 301 Junior Harp I****1-4 hrs**[back to top](#)**HARP 302 Junior Harp II****1-4 hrs**[back to top](#)**HARP 401 Senior Harp I****1-4 hrs**[back to top](#)**HARP 402 Senior Harp II****1-4 hrs**[back to top](#)

Harpsichord

HRPCHD 100 A 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.

2 hrs[back to top](#)**HRPCHD 100 B 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.

2 hrs[back to top](#)**HRPCHD 100 C 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.

2 hrs[back to top](#)**HRPCHD 101 Freshman Harpsichord I****2-4 hrs**[back to top](#)

HRPCHD 102 Freshman Harpsichord II**2-4 hrs**[back to top](#)**HRPCHD 201 Sophomore Harpsichord I****2-4 hrs**[back to top](#)**HRPCHD 202 Sophomore Harpsichord II****2-4 hrs**[back to top](#)**HRPCHD 301 Junior Harpsichord I****2-4 hrs**[back to top](#)**HRPCHD 302 Junior Harpsichord II****2-4 hrs**[back to top](#)**HRPCHD 401 Senior Harpsichord I****2-4 hrs**[back to top](#)**HRPCHD 402 Senior Harpsichord II****2-4 hrs**[back to top](#)

Horn

HORN 100 A 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.

2 hrs[back to top](#)**HORN 100 B 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.

2 hrs[back to top](#)**HORN 100 C 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.

2 hrs[back to top](#)

HORN 100 D Applied Study For The Non-Music Major

Nine one-half hour lessons. No jury required.

1 hr

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HORN 101 Freshman Horn I

2-4 hrs

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HORN 102 Freshman Horn II

2-4 hrs

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HORN 201 Sophomore Horn I

2-4 hrs

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HORN 202 Sophomore Horn II

2-4 hrs

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HORN 301 Junior Horn I

2-4 hrs

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HORN 302 Junior Horn II

2-4 hrs

[back to top](#)

HORN 401 Senior Horn I

2-4 hrs

[back to top](#)

HORN 402 Senior Horn II

2-4 hrs

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Oboe

OBOE 100 A 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.

2 hrs

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OBOE 100 B 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.

2 hrs

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OBOE 100 C 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.

2 hrs

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OBOE 100 D Applied Study For The Non-Music Major

Nine one-half hour lessons. No jury required.

1 hr

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OBOE 101 Freshman Oboe I

2-4 hrs

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OBOE 102 Freshman Oboe II

2-4 hrs

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OBOE 201 Sophomore Oboe I

2-4 hrs

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OBOE 202 Sophomore Oboe II

2-4 hrs

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OBOE 301 Junior Oboe I

2-4 hrs

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OBOE 302 Junior Oboe II

2-4 hrs

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OBOE 401 Senior Oboe I

2-4 hrs

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OBOE 402 Senior Oboe II

2-4 hrs

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Organ

ORGAN 100 A 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.

2 hrs

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ORGAN 100 B 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.

2 hrs

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ORGAN 100 C 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.

2 hrs

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ORGAN 100 D Applied Study For The Non-Music Major

Nine one-half hour lessons. No jury required.

1 hr

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ORGAN 101 Freshman Organ I

2-4 hrs

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ORGAN 102 Freshman Organ II

2-4 hrs

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ORGAN 201 Sophomore Organ I

2-4 hrs

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ORGAN 202 Sophomore Organ II

2-4 hrs

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ORGAN 301 Junior Organ I

2-4 hrs

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ORGAN 302 Junior Organ II

2-4 hrs

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ORGAN 401 Senior Organ I**2-4 hrs**[back to top](#)**ORGAN 402 Senior Organ II****2-4 hrs**[back to top](#)

Percussion

PERCSN 100 A 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.

2 hrs[back to top](#)**PERCSN 100 B 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.

2 hrs[back to top](#)**PERCSN 100 C 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.

2 hrs[back to top](#)**PERCSN 100 D Applied Study For The Non-Music Major****1 hr**[back to top](#)**PERCSN 101 Freshman Percussion I****2-4 hrs**[back to top](#)**PERCSN 102 Freshman Percussion II****2-4 hrs**[back to top](#)**PERCSN 201 Sophomore Percussion I****2-4 hrs**[back to top](#)**PERCSN 202 Sophomore Percussion II****2-4 hrs**[back to top](#)

PERCSN 301 Junior Percussion I**2-4 hrs**[back to top](#)**PERCSN 301 J Junior Percussion I (Jazz)****2 hrs**[back to top](#)**PERCSN 302 Junior Percussion II****2-4 hrs**[back to top](#)**PERCSN 302 J Junior Percussion II (Jazz)****2 hrs**[back to top](#)**PERCSN 401 Senior Percussion I****2-4 hrs**[back to top](#)**PERCSN 401 J Senior Percussion I (Jazz)****2 hrs**[back to top](#)**PERCSN 402 Senior Percussion II****2-4 hrs**[back to top](#)**PERCSN 402 J Senior Percussion II (Jazz)****2 hrs**[back to top](#)

Piano

PIANO 100 A 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.

2 hrs[back to top](#)**PIANO 100 B 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.

2 hrs[back to top](#)

PIANO 100 C 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.

2 hrs

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PIANO 100 D Applied Study For The Non-Music Major

Nine one-half hour lessons. No jury required.

1 hr

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PIANO 101 Freshman Piano I

2-4 hrs

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PIANO 102 Freshman Piano II

2-4 hrs

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PIANO 201 Sophomore Piano I

2-4 hrs

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PIANO 202 Sophomore Piano II

2-4 hrs

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PIANO 301 Junior Piano I

2-4 hrs

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PIANO 301 J Junior Piano I (Jazz)

2 hrs

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PIANO 302 Junior Piano II

2-4 hrs

[back to top](#)

PIANO 302 J Junior Piano II (Jazz)

2 hrs

[back to top](#)

PIANO 401 Senior Piano I

2-4 hrs

[back to top](#)

PIANO 401 J Senior Piano I (Jazz)

2 hrs

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PIANO 402 Senior Piano II**2-4 hrs**[back to top](#)**PIANO 402 J Senior Piano II (Jazz)****2 hrs**[back to top](#)

Saxophone

SAXOPH 100 A 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.

2 hrs[back to top](#)**SAXOPH 100 B 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.

2 hrs[back to top](#)**SAXOPH 100 C 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.

2 hrs[back to top](#)**SAXOPH 100 D Applied Study For The Non-Music Major**

Nine one-half hour lessons. No jury required.

1 hr[back to top](#)**SAXOPH 101 Freshman Saxophone I****2-4 hrs**[back to top](#)**SAXOPH 101 J Freshman Saxophone I (Jazz)****2 hrs**[back to top](#)**SAXOPH 102 Freshman Saxophone II****2-4 hrs**[back to top](#)**SAXOPH 102 J Freshman Saxophone II (Jazz)****2 hrs**[back to top](#)

SAXOPH 201 Sophomore Saxophone I

2-4 hrs

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SAXOPH 201 J Sophomore Saxophone I (Jazz)

2 hrs

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SAXOPH 202 Sophomore Saxophone II

2-4 hrs

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SAXOPH 202 J Sophomore Saxophone II (Jazz)

2 hrs

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SAXOPH 301 Junior Saxophone I

2-4 hrs

[back to top](#)

SAXOPH 301 J Junior Saxophone I (Jazz)

2 hrs

[back to top](#)

SAXOPH 302 Junior Saxophone II

2-4 hrs

[back to top](#)

SAXOPH 302 J Junior Saxophone II (Jazz)

2 hrs

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SAXOPH 401 Senior Saxophone I

2-4 hrs

[back to top](#)

SAXOPH 401 J Senior Saxophone I (Jazz)

2 hrs

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SAXOPH 402 Senior Saxophone II

2-4 hrs

[back to top](#)

SAXOPH 402 J Senior Saxophone II (Jazz)

2 hrs

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String Bass

STR-BASS 100 A 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.

2 hrs

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STR-BASS 100 B 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.

2 hrs

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STR-BASS 100 C 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.

2 hrs

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STR-BASS 100 D Applied Study For The Non-Music Major

NIne one-half hour lessons. No jury required.

1 hr

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STR-BASS 101 Freshman String Bass I

2-4 hrs

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STR-BASS 102 Freshman String Bass II

2-4 hrs

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STR-BASS 201 Sophomore String Bass I

2-4 hrs

[back to top](#)

STR-BASS 202 Sophomore String Bass II

2-4 hrs

[back to top](#)

STR-BASS 301 Junior String Bass I

2-4 hrs

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STR-BASS 301 J Junior St Bass I (Jazz)

2 hrs

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STR-BASS 302 Junior String Bass II**2-4 hrs**[back to top](#)**STR-BASS 302 J Junior St Bass II (Jazz)****2 hrs**[back to top](#)**STR-BASS 401 Senior String Bass I****2-4 hrs**[back to top](#)**STR-BASS 401 J Senior St Bass I (Jazz)****2 hrs**[back to top](#)**STR-BASS 402 Senior String Bass II****2-4 hrs**[back to top](#)**STR-BASS 402 J Senior St Bass II (Jazz)****2 hrs**[back to top](#)

Trombone

TROMB 100 A 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.

2 hrs[back to top](#)**TROMB 100 B 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.

2 hrs[back to top](#)**TROMB 100 C 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.

2 hrs[back to top](#)**TROMB 100 D Applied Study For The Non-Music Major**

Nine one-half hour lessons. No jury required.

1 hr[back to top](#)

TROMB 101 Freshman Trombone I

2-4 hrs

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TROMB 101 J Freshman Trombone I (Jazz)

2 hrs

[back to top](#)

TROMB 102 Freshman Trombone II

2-4 hrs

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TROMB 102 J Freshman Trombone II (Jazz)

2 hrs

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TROMB 201 Sophomore Trombone I

2-4 hrs

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TROMB 201 J Sophomore Trombone I (Jazz)

2 hrs

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TROMB 202 Sophomore Trombone II

2-4 hrs

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TROMB 202 J Sophomore Trombone II (Jazz)

2 hrs

[back to top](#)

TROMB 301 Junior Trombone I

2-4 hrs

[back to top](#)

TROMB 301 J Junior Trombone I (Jazz)

2 hrs

[back to top](#)

TROMB 302 Junior Trombone II

2-4 hrs

[back to top](#)

TROMB 302 J Junior Trombone II (Jazz)

2 hrs

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TROMB 401 Senior Trombone I**2-4 hrs**[back to top](#)**TROMB 401 J Senior Trombone I (Jazz)****2 hrs**[back to top](#)**TROMB 402 Senior Trombone II****2-4 hrs**[back to top](#)**TROMB 402 J Senior Trombone II (Jazz)****2 hrs**[back to top](#)

Trumpet

TRUMPET 100 A 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.

2 hrs[back to top](#)**TRUMPET 100 B 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.

2 hrs[back to top](#)**TRUMPET 100 C 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.

2 hrs[back to top](#)**TRUMPET 100 D Applied Study For The Non-Music Major**

Nine one-half hour lessons. No jury required.

1 hr[back to top](#)**TRUMPET 101 Freshman Trumpet I****2-4 hrs**[back to top](#)**TRUMPET 101 J Freshman Trumpet I (Jazz)****2 hrs**[back to top](#)

TRUMPET 102 Freshman Trumpet II**2-4 hrs**[back to top](#)**TRUMPET 102 J Freshman Trumpet II (Jazz)****2 hrs**[back to top](#)**TRUMPET 201 Sophomore Trumpet I****2-4 hrs**[back to top](#)**TRUMPET 201 J Sophomore Trumpet I (Jazz)****2 hrs**[back to top](#)**TRUMPET 202 Sophomore Trumpet II****2-4 hrs**[back to top](#)**TRUMPET 202 J Sophomore Trumpet II (Jazz)****2 hrs**[back to top](#)**TRUMPET 301 Junior Trumpet I****2-4 hrs**[back to top](#)**TRUMPET 301 J Junior Trumpet I (Jazz)****2 hrs**[back to top](#)**TRUMPET 302 Junior Trumpet II****2-4 hrs**[back to top](#)**TRUMPET 302 J Junior Trumpet II (Jazz)****2 hrs**[back to top](#)**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

1 hr[back to top](#)

TRUMPET 401 Senior Trumpet I**2-4 hrs**[back to top](#)**TRUMPET 401 J Senior Trumpet I (Jazz)****2 hrs**[back to top](#)**TRUMPET 402 Senior Trumpet II****2-4 hrs**[back to top](#)**TRUMPET 402 J Senior Trumpet II (Jazz)****2 hrs**[back to top](#)

Tuba

TUBA 100 A 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.

2 hrs[back to top](#)**TUBA 100 B 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.

2 hrs[back to top](#)**TUBA 100 C 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.

2 hrs[back to top](#)**TUBA 100 D Applied Study For The Non-Music Major**

Nine one-half hour lessons. No jury required.

1 hr[back to top](#)**TUBA 101 Freshman Tuba I****2-4 hrs**[back to top](#)**TUBA 102 Freshman Tuba II****2-4 hrs**[back to top](#)

TUBA 201 Sophomore Tuba I**2-4 hrs**[back to top](#)**TUBA 202 Sophomore Tuba II****2-4 hrs**[back to top](#)**TUBA 301 Junior Tuba I****2-4 hrs**[back to top](#)**TUBA 302 Junior Tuba II****2-4 hrs**[back to top](#)**TUBA 401 Senior Tuba I****2-4 hrs**[back to top](#)**TUBA 402 Senior Tuba II****2-4 hrs**[back to top](#)

Viola

VIOLA 100 A 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.

2 hrs[back to top](#)**VIOLA 100 B 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.

2 hrs[back to top](#)**VIOLA 100 C 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.

2 hrs[back to top](#)**VIOLA 100 D Applied Study For The Non-Music Major**

Nine one-half hour lessons. No jury required.

1 hr[back to top](#)

VIOLA 101 Freshman Viola I**2-4 hrs**[back to top](#)**VIOLA 102 Freshman Viola II****2-4 hrs**[back to top](#)**VIOLA 201 Sophomore Viola I****2-4 hrs**[back to top](#)**VIOLA 202 Sophomore Viola II****2-4 hrs**[back to top](#)**VIOLA 301 Junior Viola I****2-4 hrs**[back to top](#)**VIOLA 302 Junior Viola II****2-4 hrs**[back to top](#)**VIOLA 401 Senior Viola I****2-4 hrs**[back to top](#)**VIOLA 402 Senior Viola II****2-4 hrs**[back to top](#)

Violin

VIOLIN 100 A 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.

2 hrs[back to top](#)**VIOLIN 100 B 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.

2 hrs[back to top](#)

VIOLIN 100 C 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.

2 hrs

[back to top](#)

VIOLIN 100 D Applied Study For The Non-Music Major

Nine one-half hour lessons. No jury required.

1 hr

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VIOLIN 101 Freshman Violin I

2-4 hrs

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VIOLIN 102 Freshman Violin II

2-4 hrs

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VIOLIN 201 Sophomore Violin I

2-4 hrs

[back to top](#)

VIOLIN 202 Sophomore Violin II

2-4 hrs

[back to top](#)

VIOLIN 301 Junior Violin I

2-4 hrs

[back to top](#)

VIOLIN 302 Junior Violin II

2-4 hrs

[back to top](#)

VIOLIN 401 Senior Violin I

2-4 hrs

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VIOLIN 402 Senior Violin II

2-4 hrs

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Voice

VOICE 100 A 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.

2 hrs

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VOICE 100 B 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.

2 hrs

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VOICE 100 C 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.

2 hrs

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VOICE 101 Freshman Voice I

One hour weekly participation in Vocal Performance Seminar is required.

2-4 hrs

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VOICE 102 Freshman Voice II

One hour weekly participation in Vocal Performance Seminar is required.

2-4 hrs

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VOICE 201 Sophomore Voice I

One hour weekly participation in Vocal Performance Seminar is required.

2-4 hrs

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VOICE 202 Sophomore Voice II

One hour weekly participation in Vocal Performance Seminar is required.

2-4 hrs

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VOICE 301 Junior Voice I

One hour weekly participation in Vocal Performance Seminar is required.

2-4 hrs

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VOICE 302 Junior Voice II

One hour weekly participation in Vocal Performance Seminar is required.

2-4 hrs

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VOICE 401 Senior Voice I

One hour weekly participation in Vocal Performance Seminar is required.

2-4 hrs

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VOICE 402 Senior Voice II

One hour weekly participation in Vocal Performance Seminar is required.

2-4 hrs

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School of Dentistry

School of Dentistry Courses Dentistry (DENT) Dental Hygiene (DENHY)

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.

2 hrs

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DENT-HYG 3020 Dental Radiology

Lecture and clinical practice of dental radiographic procedures. Topics included are radiation hygiene, taking and developing radiographs, processing and mounting films, and radiographic interpretation. Clinical experience is required throughout the remaining semesters.

2 hrs

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DENT-HYG 3080 Introduction To The Preventive Practice Of Dental Hygiene

This course will introduce theories and rationales for basic clinical dental hygiene care (infection control, oral examination and fundamentals of instrumentation). In diverse populations. Practical application of specific clinical skills will be introduced in the classroom and applied in the clinical setting, DENT-HYG H3080L.

4 hrs

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DENT-HYG 3080 L Preclinical Dental Hygiene

Practical application of the fundamental concepts and principles of patient care in a diverse society discussed in DENT-HYG H3080. Emphasis is placed on patient assessment and techniques of instrumentation for examination and dental hygiene treatment. After the student has mastered basic skills, he/she will begin to provide direct dental hygiene services.

2 hrs

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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.

3 hrs

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DENT-HYG 3210 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.

2 hrs

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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.

2 hrs

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DENT-HYG 3260 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.

3 hrs

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DENT-HYG 3280 C 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.

3 hrs

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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

2-3 hrs

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DENT-HYG 3300 Radiographic Interpretation

The purpose of the course is to introduce interpretation of radiographic anomalies and pathology just prior to your 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, you should be able to recognize simple pathology and radiographic anomalies. Offered: Winter

0.5 hrs

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DENT-HYG 3320 Oral Health Education

The purpose of this course is to prepare the beginning dental hygiene student to effectively fulfill the role of a dental health educator and initiator of preventive oral health programs for individuals of diverse backgrounds and needs. The steps involved in the development of an individual oral health program will be presented, as well as information on varying oral health products. The student will then have the opportunity to apply course concepts in the clinical setting.

2 hrs

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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).

2 hrs

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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.

3 hrs

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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.

1-2 hrs

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DENT-HYG 4050 Peridontics II

This course in Periodontics will provide an 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

2 hrs

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DENT-HYG 4060 C Dental Hygiene Clinic II

The student will continue to develop competency in basic dental hygiene skills. Principles of periodontal techniques, such as non-surgical periodontal therapy, supportive treatment procedures and comprehensive patient care will be emphasized. The student will be asked to demonstrate professional management skills and productivity.

2 hrs

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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.

1 hr

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DENT-HYG 4080 Introduction To Research Design

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 health related literature focusing on the review and evaluation of literature as it relates to the practice and profession of dentistry with the intent of utilizing an evidence-based approach to care.

2 hrs

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DENT-HYG 4100 Pharmacology

Discussion of pharmacotherapeutic drugs, their classification, applications, administration, adverse effects, and interactions.

3 hrs

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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.

2 hrs

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DENT-HYG 4120 C 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.

4 hrs

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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.

3 hrs

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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.

2 hrs

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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).

2 hrs

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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.

1 hr

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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.

2 hrs

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DENT-HYG 4260 C 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.

4 hrs

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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

2-4 hrs

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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

2-4 hrs

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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 student 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.

2-4 hrs

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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

1-4 hrs

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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

3 hrs

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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

2-4 hrs

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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

2-4 hrs

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DENT-HYG 4600 Advanced Clinic Concepts And Practicum

This course is designed for the graduate and degree completion dental hygiene student. It will expand on the student's basic knowledge of the dental hygiene process of care. Current scientific literature related to the topic in dental hygiene and oral health will be examined to enhance background knowledge related to the dental hygiene process and foster an attitude of critical analysis and life long learning.

2-4 hrs

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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.

3 hrs

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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

2 hrs

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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

2-4 hrs

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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

2-4 hrs

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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 prior to enrolling in this course.

2-4 hrs

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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

2-4 hrs

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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.

1-4 hrs

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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

2-4 hrs

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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

1-4 hrs

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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

1-5 hrs

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School of Education

School of Education Courses Counseling Psychology and Counselor Education (CPCE)

CPCE 420 Counseling Techniques For Educators & Other Human Services Personnel

Principles of effective communication and their evaluation. Techniques of listening, verbal and non-verbal communication and empathy will be emphasized, as well as crisis intervention.

3 hrs

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Curriculum and Instruction (EDCI)

EDUC-C&I 497 Individual Study

Guided study of a selected topic in curriculum and instruction. Prerequisite: Permission of instructor.

1-6 hrs

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Education (EDUC)

EDUC 149 Economics In The K-8 Classroom

This course is designed to help students develop an understanding of economic concepts and principles and to raise their level of comfort for infusing these concepts throughout the K-8 curriculum. Special attention will be given to both national and state economic standards.

3 hrs

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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.

2 hrs

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EDUC 180 Introduction To Education

The course will present an overview of education today for those who have a general interest in education or are considering becoming educators. The curriculum provides students with an introduction to current issues in education while incorporating skills needed for academic success. Students will also have the opportunity to gain experience in a K-12 classroom setting (2 credit hours). Prerequisite: None Offered: Fall, Winter, Summer

2 hrs

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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.

1-6 hrs

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EDUC 189 CD Special Topics

1-6 hrs

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EDUC 189 EE Special Topics

1-6 hrs

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EDUC 189 FE Special Topics

1-6 hrs

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EDUC 189 MM Special Topics

1-6 hrs

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EDUC 189 UE Special Topics

1-6 hrs

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EDUC 189 UF Special Topics

1-6 hrs

[back to top](#)

EDUC 189 US Special Topics

1-6 hrs

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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.

1-6 hrs

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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.

1-6 hrs

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EDUC 289 FE Special Topics

1-6 hrs

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EDUC 289 FL Special Topics

1-6 hrs

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EDUC 289 IA Special Topics

1-6 hrs

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EDUC 289 IU Special Topics

1-6 hrs

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EDUC 289 KT Special Topics

1-6 hrs

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EDUC 289 MM Special Topics

1-6 hrs

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EDUC 289 MT Special Topics

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EDUC 289 PS Special Topics

1-6 hrs

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EDUC 289 SE Special Topics

1-6 hrs

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EDUC 289 TE Special Topics**1-6 hrs**[back to top](#)**EDUC 289 UE Special Topics****1-6 hrs**[back to top](#)**EDUC 289 US 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.

1-6 hrs[back to top](#)**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.

1-6 hrs[back to top](#)**EDUC 389 CI Special Topics****1-6 hrs**[back to top](#)**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.

1-6 hrs[back to top](#)**EDUC 389 FE Special Topics****1-6 hrs**[back to top](#)**EDUC 389 FL Special Topics****1-6 hrs**[back to top](#)**EDUC 389 Special Topics****1-6 hrs**[back to top](#)**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.

1-6 hrs[back to top](#)

EDUC 389 MM 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.

1-6 hrs

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EDUC 389 UE 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.

1-6 hrs

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EDUC 389 US Special Topics

1-6 hrs

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EDUC 402 R Algebra For Teachers

This course is designed for secondary school mathematics teachers and teacher candidates. The content of secondary school algebra is analyzed and rationalized from a deep conceptual base with particular attention to those areas within algebra experiencing the greatest amount of change.

3 hrs

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EDUC 428 Cultural Diversity And American Education

An examination of educational needs and strategies in a culturally diverse society based on a study of several major ethnic and nationality groups in America from historical, anthropological and sociological perspectives. This course may be team-taught.

3 hrs

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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.

3 hrs

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EDUC 439 Content Reading And Language Development (4-12)

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).

3 hrs

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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.

3 hrs

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EDUC 489 A Special Topics**1-6 hrs**[back to top](#)**EDUC 489 BP Special Topics****1-6 hrs**[back to top](#)**EDUC 489 Special Topics****1-6 hrs**[back to top](#)**EDUC 489 Q Special Topics****1-6 hrs**[back to top](#)**EDUC 489 QT Special Topics****1-6 hrs**[back to top](#)**EDUC 489 TA Special Topics****1-6 hrs**[back to top](#)**EDUC 497 Individual Study**

Guided study of a selected topic in education. Prerequisite: Permission of instructor.

1-6 hrs[back to top](#)**EDUC H415 Elementary School Science**

Principles of science appropriate to the elementary school, including simple experiments and organization of materials.

3 hrs[back to top](#)

Physical Education (PE)

PHYS-ED 106 Badminton

This course teaches the basic rules, skill techniques, terminology and strategy for badminton. Fall/Winter.

1 hr[back to top](#)**PHYS-ED 125 Golf****1 hr**[back to top](#)**PHYS-ED 145 Social Dance****1 hr**[back to top](#)

PHYS-ED 149 Basketball And Team Handball

This course teaches the basic rules, skill techniques, terminology and strategy for basketball and team handball.

1 hr

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PHYS-ED 153 Volleyball

1 hr

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PHYS-ED 157 Weight Training

1 hr

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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.

1 hr

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PHYS-ED 159 Jogging

1 hr

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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.

1 hr

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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

2 hrs

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PHYS-ED 175 L 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.

1 hr

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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.

1 hr

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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.

1 hr

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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.

1 hr

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PHYS-ED 189 Special Topics

AG

1 hr

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PHYS-ED 189 Special Topics:Activity

AY

1 hr

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PHYS-ED 189 BE Special Topics: Activity

1 hr

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PHYS-ED 189 KF 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.

1 hr

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PHYS-ED 189 KT Special Topics: Activity

1 hr

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PHYS-ED 189 RT Special Topics: Activity

1 hr

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PHYS-ED 189 Special Topics

SC

1 hr

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PHYS-ED 189 SS Special Topics: Activity

1 hr

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PHYS-ED 189 WJ Special Topics: Activity**1 hr**[back to top](#)**PHYS-ED 189 WM Special Topics: Activity****1 hr**[back to top](#)**PHYS-ED 189 XX Special Topics: Activity****1 hr**[back to top](#)**PHYS-ED 189 XY Special Topics: Activity****1 hr**[back to top](#)**PHYS-ED 189 YO Special Topics: Activity****1 hr**[back to top](#)**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).

1 hr[back to top](#)**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.

2 hrs[back to top](#)**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.

1 hr[back to top](#)**PHYS-ED 312 Physical Education For The Elementary Schools**

This course identifies the physical education needs of the elementary school child in relation to his total development with emphasis on methods and materials. Must be taken concurrently with PHYS-ED 312L. Prerequisite: Elementary Education Major Required.

2 hrs[back to top](#)**PHYS-ED 312 L 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.

1 hr[back to top](#)

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-PHYSICS 117, LS- ANATO 118, LS-ANATO 118L or permission of instructor. Offered: Fall and Winter.

3 hrs

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PHYS-ED 361 WI 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)

3 hrs

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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.

1-3 hrs

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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. Must be taken concurrently with PE 401L. Prerequisites: Elementary or Physical Education Teaching major.

2 hrs

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PHYS-ED 401 L 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.

1 hr

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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.

3-6 hrs

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PHYS-ED 106 Badminton

This course teaches the basic rules, skill techniques, terminology and strategy for badminton. Fall/Winter.

1 hr

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PHYS-ED 125 Golf

1 hr

[back to top](#)

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1 hr

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PHYS-ED 189 Special Topics

1 hr

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PHYS-ED 189 AY Special Topics:Activity

1 hr

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PHYS-ED 189 Special Topics: Activity

1 hr

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1 hr

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PHYS-ED 189 KT Special Topics: Activity

1 hr

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PHYS-ED 189 RT Special Topics: Activity

1 hr

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PHYS-ED 189 SC Special Topics

1 hr

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3 hrs

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3 hrs

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1-3 hrs

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2 hrs

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1 hr

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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.

3-6 hrs

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Special Education (EDSP)

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.

3 hrs

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Teacher Education (TE)

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

3 hrs

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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

3 hrs

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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.

3 hrs

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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

2 hrs

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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.

2 hrs

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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

2 hrs

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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

3 hrs

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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

3 hrs

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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 settings have been arranged to provide students with an opportunity to observe and interact with children as they study the four stages of development.

1 hr

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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

1 hr

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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.

2 hrs

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TCH-ED 255 Intergrated 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.

3 hrs

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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.

1 hr

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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.

2 hrs

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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.

3 hrs

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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

1 hr

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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

1 hr

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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.

3 hrs

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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.

1 hr

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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.

6 hrs

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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.

1 hr

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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.

3 hrs

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TCH-ED 400 Child Development

Intellectual and social development from birth through middle childhood and their implications for the educative process.

3 hrs

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TCH-ED 402 Creative Activities

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.

3 hrs

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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.

3 hrs

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TCH-ED 404 Education Of The Exceptional Child And Youth

Students will be introduced to identification and educational intervention procedures for educating exceptional children and adolescents in mainstream classroom situations. Fall and Winter.

3 hrs

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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.

1 hr

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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.

1 hr

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TCH-ED 407 Practicum III - Elementary

This course will be taken in conjunction with the elementary and middle school methods courses. Students will be expected to spend 60 hours at classroom sites during the semester.

0 hrs

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TCH-ED 408 WI 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

3 hrs

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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 t 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.

3 hrs

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TCH-ED 410 Teacher in the Classroom

Teacher in the Classroom is the second of a three-part 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. It is designed to assist preservice teachers in not only make the transformation from to student to professional educator, but also in developing the knowledge, management, and reflective skills to implement a well-planned and effective curriculum that meets the needs, interests challenges and lives of students who live in and will function in an increasingly culturally diverse, democratic society in an interdependent world.Restrictions: You must be admitted to the Teacher Education program in Elementary or Middle School Education or the IUE to take this course

2 hrs

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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.

3 hrs

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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.

3 hrs

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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.

2 hrs

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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.

4 hrs

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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

4 hrs

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TCH-ED 417 Science Methods In The Elementary School

The course prepares pre-service teachers to teach science from a constructivist, inquiry-oriented perspective.

3 hrs

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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.

3 hrs

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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

3-12 hrs

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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.

3 hrs

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TCH-ED 422 Practicum II Middle and Secondary

A continuation of practicum 1. Further development of observation, interview and analytic skills. Teaching experiences such as teacher aid and/or tutor will be included. Students will be expected to spend 60 hours at classroom sites during the semester.

0 hrs

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TCH-ED 423 Practicum II Middle and Secondary

A continuation of Practicum II. 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. Prerequisites: TCH ED 405 and TCH ED 422 Offered: Fall

0 hrs

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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.

2 hrs

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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.

2 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3-12 hrs

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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.

3 hrs

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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.

3 hrs

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TCH-ED 441 Literacy Development I

An introduction to how language is acquired and how to facilitate oral language expression in early childhood classrooms.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3-4 hrs

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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.

3 hrs

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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).

4 hrs

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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).

2 hrs

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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.

3 hrs

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TCH-ED 455 Student Teaching In Preschool

Observation and student teaching under supervision in a preschool setting.

6-10 hrs

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TCH-ED 456 Student Teaching In Elementary, K Through 3

Observation and student teaching under supervision in an elementary school, grades K through 3.

6-12 hrs

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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.

3 hrs

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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."

1 hr

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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

2 hrs

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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

2 hrs

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TCH-ED 461 Student Teaching In Middle School

Observation and student teaching under supervision in a middle school setting.

6-12 hrs

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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

2 hrs

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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.

3 hrs

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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.

1 hr

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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.

1 hr

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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.

3 hrs

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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.

3 hrs

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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.

1 hr

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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 480 Restrictions: Students must be admitted to teacher education program

1 hr

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TCH-ED 483 Early Childhood Reading I: Introduction to Literacy and Reading Education

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 comprehensive reading curriculum and a range of instructional approaches and methods appropriate for early childhood learners at different stages of literacy development.

4 hrs

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TCH-ED 484 Early Childhood Reading II: Assessing and Teaching Diverse Learners

This course introduces 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 projects for the course involves assessing and teaching an individual student over the course of the semester. Teacher candidates should also assess and teach in small groups of readers. Prerequisite: Students must be admitted to the teacher education program

4 hrs

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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.

3 hrs

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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.

0 hrs

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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.

3 hrs

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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.

1 hr

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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.

2 hrs

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TCH-ED H400 Child Development

Intellectual and social development from birth through middle childhood and their implications for the educative process.

3 hrs

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TCH-ED H408 WI 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

3 hrs

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TCH-ED H415 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.

4 hrs

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School of Graduate Studies

Libraries

School of Medicine

School of Medicine Courses

School of Nursing

School of Nursing Courses Nursing

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 relationship 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

2 hrs

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NURSE 120 Anatomy & Physiology I

This course examines the structure of the human body from the molecular to the organismal level as they interact among all body systems across the life span. CO-requisite laboratory exercises provide practical application of theoretical concepts. In this first of two-term course, molecular biology, biochemistry, cellular biology, and histology are studied as well as the integumentary, musculoskeletal, and nervous systems. Prerequisite: Pre-nursing students or consent of instructor Offered: Fall

4 hrs

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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

1 hr

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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

1 hr

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NURSE 132 A 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 healing modalities. Relevant to all health care providers and health care consumers, the content will cover medicinal plants and herbs and related topics.

1 hr

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NURSE 132 B Introduction To Holistic Health Care: Energy Medicine

This course provides an introduction to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and nontraditional healing modalities. Relevant to all health care providers and health care consumers, the content will include Energy Medicine and related topics.

1 hr

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NURSE 132 C Introduction To Holistic Health Care: Relaxation Techniques

This course provides an hands on introduction to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non-traditional healing modalities. Relevant to all health care providers and health care consumers, the content will include Relaxation Techniques and related topics.

1 hr

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NURSE 132 D 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 healing modalities. Relevant to all health care providers and health care consumers, the content will include Chinese Medicine, Hypnosis and other related topics.

1 hr

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NURSE 134 A Introduction To The History Of Nursing: Beginning to 1880's

This course designed to give an introductory examination of the rich and unique development of nursing as a discipline, profession, art, and science from a historical perspective. Past and present nursing issues will be identified and discussed. The social, philosophical, and political forces which have impacted the course of nursing history from Hippocrates and Florence Nightingale to the 1880's will be examined.

1 hr

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NURSE 134 B Introduction To The History Of Nursing: 1880's to 1930's

This course is designed to give an introductory examination of the rich and unique development of nursing as a discipline, profession, art, and science from a historical perspective. Past and present nursing issues will be identified and discussed. The social, philosophical, and political forces which have impacted the course of nursing history from the Spanish-American War and World War I to the 1930's will be examined. Semester Offered: Spring

1 hr

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NURSE 134 C Introduction To The History Of Nursing: 1930's to the 1950's

This course is designed to give an introductory examination of the rich and unique development of nursing as a discipline, profession, art, and science from a historical perspective. Past and present nursing issues will be identified and discussed. The social, philosophical, and political forces which have impacted the course of nursing history from the 1930's, Public Health Nursing, World War II, to 1950 will be examined.

1 hr

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NURSE 134 D Introduction to the History of Nursing: 1950 to Future

This course is designed to give an introductory examination of the rich and unique development of nursing as a discipline, profession, art, and science from a historical perspective. Past and present nursing issues will be identified and discussed. The social, philosophical, and political forces which have impacted the course of nursing history from 1950 to the present and into the future will be examined.

1 hr

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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, urinary and reproductive are studied as well as embryology and genetics. Prerequisite: NURSE 120

4 hrs

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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.

6 hrs

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NURSE 230 Health Issues In Aging

This course focuses on the role of the nurse in promoting and maintaining the health of the older adult population. Evidence based nursing care of the older adult that includes: physiological, psychological, pharmacological, and nutritional considerations as affected by theories on aging, socio-cultural influences, legal and ethical issues, and health care resources are explored. Nursing assessment, diagnoses, interventions, and outcomes specific to the older adult population are discussed. Opportunities are provided for interaction with this population. Prerequisite: Admission into the BSN Program
Offered: Fall

2 hrs

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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.

3 hrs

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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

3 hrs

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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 indications and nursing implications. Prerequisites: NURSE 127, 220, 230, 250, 395. Offered: Spring

3 hrs

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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 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: NURSE 120, 220, 230, 250, 395. Corequisite: NURSE 256

5 hrs

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NURSE 342 Legal & Ethical Issues

This course is designed to investigate medical-legal issues an 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. It allows the student an opportunity to learn about ethical decision making with the introduction of various ethical systems, concepts, and principles explored. Prerequisites: Admission to the Nursing Major or BSN Completion Program Offered: Fall

2 hrs

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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.

3 hrs

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NURSE 346 Women's Health in the Community

This two credit hour undergraduate elective course will introduce students to the social and personal concerns of women. The class will meet a two hour session once a week. Arrangements are possible for students to take the class for three credit hours with permission os the instructor; .

2-3 hrs

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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

3 hrs

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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 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. Each year course faculty will choose 1-2 countries outside of the United States for in-depth study. Students wishing to earn 3 credits will travel to this country and learn about the health issues through observations and participation. Prerequisites: At least second year student in the UMKC School of Nursing or permission of instructor. Offered: Winter

2-3 hrs

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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 categories 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.

4 hrs

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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

5 hrs

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NURSE 364 Management Of Maternal & Family Health

This course focuses on the application of the nursing process in the adaptation of the childbearing family. Emphasis is placed on adaptation during pregnancy, labor, birth and postpartum period. Key concepts to be addressed include maternal, fetal, neonatal and family adaptation throughout 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

4 hrs

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NURSE 366 Management Of Child & Adolescent Health

This course focuses on the application of the nursing process in the care of the pediatric client. Emphasis is placed on providing development appropriate care to healthy, acutely ill and chronically ill pediatric clients holistically within the context of a family system. Key concepts to be explored include age appropriate anatomy, physiology, pathophysiology, and pharmacology and their application to the nursing strategies of health assessment, health promotion, disease prevention, pain management, family centered and culturally sensitive care. Two credit hours for didactic /discussion and two credit hours for clinical /lab/ (120 hours) Prerequisites: NURSE 262

4 hrs

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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.

3 hrs

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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 presentation. Prerequisite: 200 level Nursing courses; NURSE 395 Pathophysiology Offered: Varies

2 hrs

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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

3 hrs

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NURSE 430 A 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

1 hr

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NURSE 430 B 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

1 hr

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NURSE 430 C 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.

1 hr

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NURSE 432 A Holistic Health Care: Medicinal Plants & Herbs

This course provides a hands-on and in-depth exploration to the practice of Holistic Health Care which promotes and preserves the health of client by integrating traditional and non-traditional 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

1 hr

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NURSE 432 B Holistic Health Care: Energy Medicine

This course provides a hands-on in-depth exploration to the practice of Holistic Health Care which promotes and preserves the health of client by integrating traditional and non-traditional healing modalities. Relevant to all health care providers and health care consumers, the content will include Energy Medicine and related topics.

1 hr

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NURSE 432 C Holistic Health Care: Relaxation Techniques

This course provides a hands-on and in-depth exploration to the practice of Holistic Health Care which promotes and preserves the health of client by integrating traditional and non-traditional 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

1 hr

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NURSE 432 D 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 healing modalities. Relevant to all health care providers and health care consumers, the content will include Chinese Medicine, Hypnosis and other related topics.

1 hr

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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

3 hrs

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NURSE 434 A History Of Nursing: Beginning to 1880's

This course is designed to examine, in depth, the rich and unique development of nursing as a discipline, profession, art and science from a historical perspective. Past and present nursing issues will be identified and discussed. The social, philosophical, and political forces which have impacted the course of nursing history from Hippocrates and Florence Nightingale to the 1880's will be examined. Offered: Spring

1 hr

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NURSE 434 B History Of Nursing

This course is designed to examine, in depth, the rich and unique development of nursing as a discipline, profession, art and science from a historical perspective. Past and present nursing issues will be identified and discussed. The social, philosophical, and political forces which have impacted the course of nursing history from the Spanish-American War and World War I to the 1930's will be examined. Offered: Spring

1 hr

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NURSE 434 C History Of Nursing: 1930's to 1950's

This course is designed to examine, in depth, the rich and unique development of nursing as a discipline, profession, art and science from a historical perspective. Past and present nursing issues will be identified and discussed. The social, philosophical, and political forces which have impacted the course of nursing history from the 1930's, Public Health Nursing, World War II, to 1950 will be examined. Offered: Spring

1 hr

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NURSE 434 D History of Nursing: 1950 to Future

This course is designed to examine, in depth, the rich and unique development of nursing as a discipline, profession, art, and science from a historical perspective. Past and present nursing issues will be identified and discussed. The social, philosophical and political forces which have impacted the course of nursing history from 1950 to the present and into the future will be examined. Offered: Spring

1 hr

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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: NURSE 465 and NURSE 467

2 hrs

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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: NURSE 360 and NURSE 362. Offered: Fall

4 hrs

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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

5 hrs

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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, 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

5 hrs

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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

5 hrs

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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 CO-Requisite: NURSE 345 or equivalent. Offered: Spring

3 hrs

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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 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. Prerequisite: ENGLISH 225

6 hrs

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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

6 hrs

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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

6 hrs

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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: NURSE 483

6 hrs

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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, NURSE 482, Pre-or CO-requisite: NURSE 483 Offered: Fall

3 hrs

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NURSE 486 Application To Practice

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

2 hrs

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NURSE 488 Special Topics for Professional Nursing

This course is designed to explore current issues and trends influencing nursing practice. The Integrated Value Based Learning and Development Model for Accountability-based Practice is used as a framework for review, analyses of cultural, economic, ethical, political, professional, organizational, research-based, social, technological, and/or value issue as they relate to interdisciplinary practice. Prerequisite: NURSE 483

1 hr

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NURSE 490 Special Topics

A course of study in a special area of interest in nursing under individual faculty direction. Prerequisite: Consent of instructor.

1-9 hrs

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NURSE 490 BA Special Topics

1-9 hrs

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NURSE 490 BB Special Topics

1-9 hrs

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NURSE 490 BC Special Topics

1-9 hrs

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NURSE 490 Special Topics Nursing

1-9 hrs

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NURSE 490 Special Topics Nursing

1-9 hrs

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NURSE 490 HA Special Topics

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NURSE 490 Special Topics

1-9 hrs

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NURSE 490 WV Special Topics

1-9 hrs

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School of Pharmacy

School of Pharmacy Courses Pharmacy (PHARM)

PHARM 7100 A Introductory Topics In Pharmacy I

Discussion of the system of pharmacy, role of pharmacist as provider of health care, their education and professional organizations. Class meets for two hours once per month. Prerequisite: Admission restricted to provisionally admitted students in the School of Pharmacy. Credit/no credit. Offered: Fall Restrictions: AU 50

0.5 hrs

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PHARM 7100 B Introductory Topics In Pharmacy II

Continuation of PHARM 100A. Credit/No credit. Offered: Winter Restrictions: AU 50 Prerequisite: PHARM 100A

0.5 hrs

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PHARM 7101 Professional Skills Development I

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.

2 hrs

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PHARM 7104 Professional Skills Development III

This course provides instruction in performing the necessary calculations involved with the practice of pharmacy including, but not limited to, calculations, involved with dosing patients by body weight and body surface area, preparing iso-osmotic preparations, and the extemporaneous compounding of pharmaceutical formulations. In addition, professional skills are developed with traditional dispensing of pre-manufactured prescription drugs, extemporaneous compounding, preparing intravenous products, and instruction in the acquisition and interpretation of clinical laboratory data associated with several disease states. Prerequisite: PHARM 414

2 hrs

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PHARM 7110 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

2 hrs

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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

1 hr

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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

1 hr

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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 Standing)

4 hrs

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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)

3 hrs

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PHARM 7203 L 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)

1 hr

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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 1) , 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.

3 hrs

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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

0.5 hrs

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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 the 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

1 hr

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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

4 hrs

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PHARM 7310 Academic Service Learning I

Students will be assigned to KC area service organization as a part of the Center for the City's Health Ambassadors program. A minimum of 30 contact hours must be completed during the assigned semester. Health education will be the primary focus. Prerequisite: Successful completion of Pharm D courses through semester 4. Offered: Fall/Winter semester
Restrictions: AU 52

1 hr

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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

1 hr

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PHARM 7325 Professional Communications in Pharmacy

The goal of PHARM 7325 is to develop verbal and written professional communication skills. PHARM 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.

3 hrs

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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

5 hrs

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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.

3 hrs

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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.

3 hrs

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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

0.5 hrs

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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-PHYSICS 400 and LS-BIOC 366 Restrictions: AU 51 & AU 52 Level A

4 hrs

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PHARM 7362 Pharmacology II

The study of the pharmacology of medicinals with emphasis on drugs affecting the central nervous system, chemotherapy, anti-microbial agents, and drugs used to treat endocrine disorders. Five hours lecture per week. Prerequisite: PHARM 361 or permission of instructor. Winter. Restrictions: AU 51 & AU 52 Level A

5 hrs

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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

3 hrs

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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 devices, 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

2 hrs

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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

2 hrs

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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-Req: PHARM 420 Restrictions: AU 52 Level B Offered: Fall

2 hrs

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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-Req: PHARM 420

2 hrs

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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 NURSE 548, Pharmacology I, PHARM 361 Restrictions AU52 I Levels A,B,C

4 hrs

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PHARM 7399 Required Enrollment

Required enrollment for international students in pharmacy training sites.

1 hr

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PHARM 7404 P 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.

4 hrs

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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

3 hrs

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PHARM 7406 P General Medicine I

The candidate will spend two semester 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 cnat 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

4 hrs

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PHARM 7407 P 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

8 hrs

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PHARM 7409 P 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

4 hrs

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PHARM 7410 P General Medicine III

Continuation of Required General Medicine series. Required rotation. Offered: Fall/Winter Restrictions: AU52 Level C

4 hrs

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PHARM 7412 P 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

4 hrs

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PHARM 7414 Professional Skills Development II

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

3 hrs

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PHARM 7418 P 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

4 hrs

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PHARM 7419 P General Medicine IV

Continuation of General Medicine series. Required rotation. Prerequisites: Successful completion of all coursework through semester 8

4 hrs

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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

7 hrs

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PHARM 7420 P 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: Pharm D Professional level 3&2

4 hrs

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PHARM 7421 P 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.

4 hrs

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PHARM 7424 Introduction To Dietary Supplement Therapeutics

The 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 learn communication skills specific to discussing supplement use with patients, basic clinical knowledge to avoid or minimize the risk of harm with common dietary supplements, and the skills to retrieve and interpret reliable information to be able to make decisions about new or unfamiliar supplements.

Prerequisite: Fourth Prof Year CO-Requisite: PHARM 420 Restrictions: AU 52 Level B Offered: Fall

2 hrs

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PHARM 7427 Hospital Pharmacy

Methods utilized by hospitals to distribute medication, as well as the fiscal and administrative aspects of such systems. Students who enroll in this course are to spend at least one four-week portion of the Pharmacy Externship in a general hospital setting unless excused by instructor. Elective. Offered: Winter Restrictions: AU 52 Level B

2 hrs

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PHARM 7428 Veterinary Pharmacology

Pharmaceutical preparations used in veterinary medicine. Elective.

3 hrs

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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. Prerequisite(s): 7361,7362 Pharmacology I & II; Pharmacotherapy II Offered: Spring

3 hrs

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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

3 hrs

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PHARM 7451 Pharmacy Law And Ethics

Laws and ethics which affect the practice of pharmacy. Two hours lecture and/or discussion per week. Prerequisite: Completion of all required courses through Sem 6 Offered: Fall Restrictions: AU 52 Level B

2 hrs

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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

2 hrs

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PHARM 7465 Economics Of Health & 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. Prerequisites: Upper level or permission of instructor Restrictions: AU 52 Offered: Fall

3 hrs

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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

3 hrs

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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

3 hrs

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PHARM 7485 P 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

7 hrs

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PHARM 7489 Special Topics In Pharmacy

1-5 hrs

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PHARM 7489 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.

1-5 hrs

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PHARM 7489 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.

1-5 hrs

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PHARM 7489 M 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.

1-5 hrs

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PHARM 7489 N 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.

1-5 hrs

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PHARM 7489 O 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.

1-5 hrs

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PHARM 7489 P 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.

1-5 hrs

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PHARM 7497 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

1-4 hrs

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PHARM 7746 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 principles in a variety of situations or settings. Prerequisite: Economics of Health and Medicine
Restrictions: Pharm D. Professional Level 2

0 hrs

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Graduate Courses

Graduate Course Index

College of Arts & Sciences Courses Anthropology

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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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ANTHRO 5580 CL Cluster Course: Introduction To Women'S Studies

3 hrs

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ANTHRO 5580 Special Studies In Anthropology

1-3 hrs

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ANTHRO 5580 J Special Studies In Anthropology

1-3 hrs

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Art and Art History

ART 5501 Scope And Methods Of Art History

A history of the discipline, bibliography, procedures and methods, and similar topics essential to graduate-level work in art history. Every winter.

3 hrs

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ART 5505 Graduate Technical Colloquium

An advanced study of technical matters pertinent to the production and study of art. Demonstration projects are required. Prerequisite: Permission of the department. Every fall.

3 hrs

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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.

3-6 hrs

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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.

3-6 hrs

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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.

3-6 hrs

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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.

3-6 hrs

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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.

3-6 hrs

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ART 5530 Graduate Sculpture

Sculpture 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.

3-6 hrs

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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.

3-6 hrs

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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.

3-6 hrs

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ART 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.

3 hrs

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ART 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.

3 hrs

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ART 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.

3 hrs

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ART 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.

3 hrs

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ART 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.

3 hrs

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ART 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.

3 hrs

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ART 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.

3 hrs

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ART 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.

3 hrs

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ART 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.

1-6 hrs

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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.

2-4 hrs

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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.

1-9 hrs

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ART 5699 Research And Dissertation

Dissertation Research and writing in Art History. Prerequisite: Consent of advisor

1-12 hrs

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ART 5899 Required Graduate Enrollment

1 hr

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Arts and Sciences

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.

3 hrs

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A&S 5500 A Interdisciplinary Colloquium On Aging I

1-2 hrs

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A&S 5500 B Interdisciplinary Colloquium On Aging II

1-2 hrs

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A&S 5500 C Interdisciplinary Colloquium On Aging III

1-2 hrs

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A&S 5500 L Special Readings Topics/Philosophy

1-3 hrs

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A&S 5500 P Special Topics-Readings Psychology

1-3 hrs

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A&S 5500 Q Special Readings/Topics Theatre

1-3 hrs

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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.

1-3 hrs

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A&S 5501 D Special Readings/Topics

1-3 hrs

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A&S 5501 Special Readings/Topics

1-3 hrs

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A&S 5501 K Special Topics

1-4 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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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.

1-3 hrs

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A&S 5550 Seminar In Social Science Perspectives Study Of Community

3 hrs

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A&S 5571 A 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.

1-6 hrs

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A&S 5572 Seminar In Philosophy Of Science I

3 hrs

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A&S 5581 Practicum Seminar In Aging

This practicum experience is for students who already have substantial experience working in the aging services network. Students, faculty and service providers to the elderly from the community will discuss a work on solutions to practical problems and issues confronted in agencies serving the elderly. The student will complete a written project and related oral examination on a problem pertinent to his/her work experience.

3 hrs

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A&S 5591 Practicum In Community Social Science Research

3 hrs

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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.

3-8 hrs

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A&S 5899 Required Graduate Enrollment

1 hr

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Chemistry

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.

1 hr

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CHEM 5520 R Survey Of Organic Chemistry

An intensive advanced survey of the structure, synthesis and reactions of organic compounds. Three hours lecture a week.

3 hrs

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CHEM 5521 R 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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CHEM 5532 Chemical Kinetics

Empirical analysis of chemical reaction rates. Theories of unimolecular and bimolecular reactions, reactions in solution and complex reactions. Review of modern and classical techniques used to study chemical kinetics. Three hours lecture a week.

3 hrs

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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.

3 hrs

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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.

3 hrs

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CHEM 5535 Statistical Thermodynamics

A rigorous treatment of the fundamental concepts of statistical thermodynamics, with applications to specific systems that reflect the interests of students participating in the course.

3 hrs

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CHEM 5539 Selected Topics In Physical Chemistry

Selected topics and recent developments in physical chemistry. Prerequisite: CHEM 5530 or consent of instructor. Three hours lecture a week.

3 hrs

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CHEM 5541 R Advanced Analytical Chemistry

An intensive review of modern concepts of analytical chemistry. Prerequisite: CHEM 432. Three hours lecture a week.

3 hrs

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CHEM 5549 R Selected Topics In Analytical Chemistry

Selected topics and recent developments in analytical chemistry, including modern instrumental methods, electrochemical methods and separation methods. Topics vary from year to year. Prerequisite: CHEM 442 or CHEM 5541R.

3 hrs

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CHEM 5551 R 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.

3 hrs

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CHEM 5553 R Organometallic Chemistry

A survey of the synthesis, structure and reactions of organometallic compounds. Prerequisite: CHEM 5551R or consent of instructor. Three lecture hours each week.

3 hrs

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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.

3 hrs

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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.

3 hrs

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CHEM 5571 R 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.

3 hrs

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CHEM 5579 R Selected Topics In Polymer Chemistry

Selected topics and recent developments in specialized fields of polymer chemistry. Presented at intervals, topics vary from year to year.

3 hrs

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CHEM 5580 R 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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CHEM 5590 Directed Studies

Intensive readings and/or research in an area selected by the graduate student in consultation with the instructor.

1-3 hrs

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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.

3 hrs

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CHEM 5599 Research And Thesis

Research for thesis.

1-9 hrs

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CHEM 5611 Chemistry Seminar

Presentation and discussion of topics currently appearing in United States and foreign literature. One hour each week.

1 hr

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CHEM 5699 Research And Dissertation

Research for dissertation.

1-16 hrs

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CHEM 5899 Required Graduate Enrollment

1 hr

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Communication Studies

COMM-ST 5554 Advanced Screenwriting

This course provides students with advanced theory in narrative screenwriting, training in industry standard script analysis (called "coverage") and short story editing. Students will be required to draft, revise and workshop a short film or screenplay or will focus on a feature screenplay, delivering a draft and revision of the first act and a detailed outline for the rest of the script. Students will workshop feature screenplays in small groups, emphasizing the art of constructive story editing. Prerequisite: CommSt 240; Intro to Screenwriting Offered: Spring

3 hrs

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COMM-ST 5597 Directed Graduate Studies: Readings

Special Projects on the graduate level.

1-6 hrs

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COMM-ST 5598 Directed Graduate Studies: Non-Thesis Research

Special projects on the graduate level.

1-6 hrs

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Criminal Justice and Criminology

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.

3 hrs

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CJC 5501 Proseminar To The Criminal Justice System

This course is designed to address issues affecting the entire criminal justice system. The course addresses aspects of policing, courts and court administration, and the state of American correctional practices.

3 hrs

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CJC 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, and use of scales, and data analysis. Crosslisted with SOCIOL 510. Offered: Fall. Prerequisites: CJC 483 or equivalent

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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CJC 5571 Legal Aspects Of Criminal Justice Professionals

This course is designed to acquaint students with the powers that correctional administrators enjoy. In the final analysis, the course addresses the legal liabilities that administrators face if they infringe on the rights of people in the places of confinement.

3 hrs

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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).

3 hrs

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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.

3 hrs

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CJC 5580 Seminar: Policy And Decision Making In Criminal Justice

The focus of the course is the nature and scope of policy and decision-making processes in legal institutions and law enforcement bureaucracies.

3 hrs

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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

1-3 hrs

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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

3 hrs

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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

3 hrs

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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.

1-6 hrs

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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.

1-12 hrs

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CJC 5899 Required Graduate Enrollment

1 hr

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Economics

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.

3 hrs

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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

3 hrs

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ECON 5504 R 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.

3 hrs

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ECON 5504 RR 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

3 hrs

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ECON 5505 Advanced Comparative Economic Systems

Contents vary depending upon the instructor's design for the course. Prerequisite: ECON 301, ECON 302.

3 hrs

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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

3 hrs

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ECON 5508 Controversial Issues In Recent Economic Literature

This course will focus on theoretical and policy-oriented controversies that have occurred in economic 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.

3 hrs

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ECON 5512 Advanced Economic Development

Contents vary depending upon the instructor's design. Prerequisite: ECON 301, ECON 302.

3 hrs

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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.

3 hrs

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ECON 5516 L 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.

3 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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ECON 5535 Theory Of Public Finance

An inquiry into the scope and nature of economics with emphasis on the nature of the public sector including a brief study of welfare criteria along with the study of ability to pay, benefit theory of taxation, and expenditure theories.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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ECON 5560 Industrial Organization

The structure, conduct and performance of American industry. Historical evolution of American industry; alternative industrial systems, antitrust policies and their alternatives. Technological change and industrial performance. Prerequisite: ECON 301, ECON 302.

3 hrs

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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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 521 Prerequisites: ECON 521 or permission of instructor

3 hrs

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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.

3 hrs

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ECON 5590 Special Topics

Selected topics in theoretical and applied economics. Prerequisite: Consent of instructor.

1-3 hrs

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ECON 5590 A Special Topics

1-3 hrs

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ECON 5590 B Special Topics

1-3 hrs

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ECON 5590 C Special Topics

1-3 hrs

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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

3 hrs

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ECON 5599 Research And Thesis

Directed specialized research.

1-6 hrs

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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.

3 hrs

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ECON 5602 Colloquium In Advanced Microeconomics

As a continuation of ECON 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

3 hrs

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ECON 5608 Topics In Economic Theory

This course deals with advanced topics in Institutional, Post Keynesian, and other heterodox economic theory. May be repeated with different topic. Offered on a 2 year cycle or on demand.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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ECON 5665 Colloquim 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.

3 hrs

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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

3 hrs

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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.

3 hrs

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ECON 5690 Special Doctoral Readings In Economics

Special research topics in Economics at the Doctoral level.

1-3 hrs

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ECON 5699 Doctoral Dissertation

Directed selected research for Economics in the interdisciplinary doctoral program.

1-12 hrs

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ECON 5899 Required Graduate Enrollment

1 hr

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English

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.

3 hrs

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ENGLISH 5500 P Special Topics

3 hrs

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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.

3 hrs

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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.

3 hrs

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ENGLISH 5503 Old English

This course is a study of Old English, its grammar, its poetic style, and its literature, both poetry and prose.

3 hrs

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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.

3 hrs

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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

3 hrs

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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 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 writings as well as individual texts.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 bibliographic work.

3 hrs

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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.

3 hrs

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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 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.

3 hrs

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ENGLISH 5520 Greater Kansas City Writing Project

Studies in methods and objectives for the teaching of English with special attention to secondary school teaching.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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, Komunyakaa. Students will make in class presentations and submit papers requiring research and bibliographic work.

3 hrs

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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.

3 hrs

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ENGLISH 5529 Screenwriting II

This advanced screenwriting course should allow students to complete a rough draft of a screenplay that they have begun in another course or on their own. It can also be used as a course in which a play or short story is transformed into a screenplay. Students are expected to be familiar with screenwriting techniques and formats and with cinematic concepts before they enroll in this course. Prerequisite: ENGLISH 429 or permission of instructor.

3 hrs

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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.

3 hrs

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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, 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

3 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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ENGLISH 5541 Girls And Print Culture

This course deals with girl's 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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 550 covers the first halves of periods which naturally fall in two parts. Continued in ENGLISH 555.

3 hrs

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ENGLISH 5550 A Graduate Seminar Medieval Literature I

3 hrs

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ENGLISH 5550 B Graduate Seminar Renaissance Literature I

3 hrs

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ENGLISH 5550 C Graduate Seminar Neo-Classical Literature I

3 hrs

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ENGLISH 5550 D Graduate Seminar 19Th Century Literature I

3 hrs

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ENGLISH 5550 Graduate Seminar American Literature I

3 hrs

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ENGLISH 5550 F Graduate Seminar Modern Literature I

3 hrs

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ENGLISH 5550 G Graduate Seminar Literary Criticism

3 hrs

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ENGLISH 5550 H Graduate Seminar Studies In Fiction I

3 hrs

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ENGLISH 5550 I Graduate Seminar In Dramatic Literature I

3 hrs

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ENGLISH 5550 J Graduate Seminar: History Of The English Language

3 hrs

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ENGLISH 5550 K Graduate Seminar: Creative Writing Prose

3 hrs

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ENGLISH 5550 M Graduate Seminar In Rhetoric And Composition

3 hrs

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ENGLISH 5550 N Graduate Seminar: Criticism

3 hrs

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ENGLISH 5550 P 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 and Shaw, with special attention to naturalism. Students will make in-class presentations and submit papers requiring research and bibliographical work.

3 hrs

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ENGLISH 5555 Graduate Seminar

See description ENGLISH 550. Course ENGLISH 555 covers the second halves of periods which naturally fall into two parts. May be repeated for credit.*

3 hrs

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ENGLISH 5555 A Graduate Seminar Medieval Literature II

3 hrs

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ENGLISH 5555 B Graduate Seminar Renaissance Literature II

3 hrs

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ENGLISH 5555 C Graduate Seminar Neo-Classical Literature I

3 hrs

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ENGLISH 5555 D Graduate Seminar In 19Th Century Literature II

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ENGLISH 5555 Graduate Seminar American Literature II

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ENGLISH 5555 F Graduate Seminar In Modern Literature II

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ENGLISH 5555 G Graduate Seminar Literary Criticism

3 hrs

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ENGLISH 5555 H Graduate Seminar Studies In Fiction II

3 hrs

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ENGLISH 5555 I Graduate Seminar In Dramatic Literature II

3 hrs

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ENGLISH 5555 J Graduate Seminar English Language

3 hrs

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ENGLISH 5555 K Graduate Seminar In Creative Writing:Poetry

3 hrs

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ENGLISH 5555 M Graduate Seminar: Composition

3 hrs

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ENGLISH 5555 N Graduate Seminar: Prose Fiction

3 hrs

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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.

3 hrs

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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.

1-4 hrs

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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.

3 hrs

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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.

3 hrs

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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 453. Students will make in-class presentations and submit papers requiring research and bibliographical work.

3 hrs

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ENGLISH 5565 Studies In Modern Novel

An intensive study of no more than three major twentieth 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.

3 hrs

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ENGLISH 5566 CA 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

3 hrs

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ENGLISH 5566 CF 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 500CF and HISTORY 500CF.

3 hrs

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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 English Department. May be repeated for credit.

1-3 hrs

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ENGLISH 5599 Research And Thesis

A student, with permission of the graduate committee, may write a thesis for 3 hours credit.

1-9 hrs

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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.

3 hrs

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ENGLISH 5650 Doctoral Seminar

3 hrs

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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.

3 hrs

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ENGLISH 5699 Research And Dissertation

Research and preparation for doctoral dissertation.

1-15 hrs

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ENGLISH 5899 Required Graduate Enrollment

1 hr

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Foreign Language

FRN-LNG 5899 Required Graduate Enrollment

1 hr

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French

FRENCH 5500 CF 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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FRENCH 5524 19th-century French Literature

Selected readings in various genres from Romanticism through symbolism. Also offered as FRENCH 424.

3 hrs

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FRENCH 5526 20th-century French Literature

Selected readings from the Belle Epoque to the contemporary period. Also offered as FRENCH 426.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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FRENCH 5552 Medieval Poetry

A study of medieval poetry including religious and secular poetry, Provençal 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 461. Prerequisites: Admission to M.A. in Romance Languages and Literature program or permission of instructor.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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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.

1-3 hrs

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Geography

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

4 hrs

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GEOG 5503 WI 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

3 hrs

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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.

3 hrs

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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

3 hrs

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GEOG 5507 Advanced Geographic Information Science

Prerequisite: GEOG 203 or permission of instructor Offered: On Demand

4 hrs

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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 learn about mapping and land navigation techniques. The field phase of instruction includes visits to archaeological sites in the region.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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GEOG 5535 Geoarchaeology

This course examines geomorphological and archaeological methods used in reconstructing sites, settlement patterns, and paleo-environments; 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.

3 hrs

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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 migrate- and theory and techniques for their study are discussed. The relationships between population growth and population planning, immigration, urbanization and cities, and the environment.

3 hrs

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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: GEOG 215; Geograpy 314 or GEOLOGY 314; or permission of instructor. On demand. Also offered as GEOG 442.

3 hrs

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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.

3 hrs

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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. Prerequisites: GEOG 315 or permission of instructor. Offered: Every other Fall

3 hrs

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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

1 hr

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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

1-3 hrs

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GEOG 5598 Special Topics In Geography

Advanced independent research in Cultural or Physical Geography. Prerequisite: Baccalaureate. By arrangement with instructor.

1-3 hrs

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GEOG 5598 A Special Topics In Cultural Geography

Advanced independent research in Cultural Geography. Prerequisite: Baccalaureate. By arrangement with instructor.

1-3 hrs

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GEOG 5598 B Special Topics In Physical Geography

Advanced independent research in Physical Geography. Prerequisite: Baccalaureate. By arrangement with instructor.

1-3 hrs

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GEOG 5598 D Special Topics In Advanced Gis And Remote Sensing

Advanced independent reserch in geographic information science (GIS) and remote sensing. Offered: On Demand
Prerequisite: Permission of instructor

1-3 hrs

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GEOG 5598 F Special Topics: Geostatistics And Modeling

Advanced independent research in geostatistics and modeling techniques. Offered: On Demand Prerequisites: Permission of instructor

1-3 hrs

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GEOG 5598 K 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.

1 hr

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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

1-9 hrs

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GEOG 5690 Special Research Topics

Student will produce a major research paper suitable for publication under the direction of their instructor.

1-3 hrs

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GEOG 5699 R Research And Dissertation

Research for dissertation in partial fulfillment of the Geosciences requirements for the Ph.D. degree.

1-10 hrs

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Geology

GEOLOGY 5507 Public Archaeology: Issues in Archeological Resources

This class examines contemporary issues managing archaeological resources. This 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 research or employment setting. This class does not require a background in archaeology.

3 hrs

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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.

3 hrs

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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.

1-5 hrs

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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. Pre-requisites: GEOLOGY 325, GEOLOGY342 & GEOLOGY 350 or permission of the instructor.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

2 hrs

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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.

2 hrs

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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 personel. Prerequisites: GEOG 335 / GEOLOGY 335 or permission of instructor. Offered: Every Summer

2 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

4 hrs

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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.

3 hrs

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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

3-6 hrs

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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.

3 hrs

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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.

3 hrs

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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 GEOLOGY350. Offered: On demand.

3 hrs

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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.

3 hrs

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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: Bacalaureate

1 hr

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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: Bacalaureate

1-3 hrs

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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.

1-3 hrs

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GEOLOGY 5598 A Special Topics In Urban Environmental Geology: Petroleum Geology

1-3 hrs

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GEOLOGY 5598 B Spec Topics In Urban Environmental Geology: Soil/Rock Mechanics

1-3 hrs

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GEOLOGY 5598 C Sp Topics In Urban Environmental Geol: Stratigraphy/Paleontology

1-3 hrs

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GEOLOGY 5598 D Spec Topics In Urban Environmental Geology-Environmental Geology

1-3 hrs

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GEOLOGY 5598 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

1-3 hrs

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GEOLOGY 5598 H Special Topics In Urban Environmental Geology - Geochemistry and Mineralogy

Prerequisites: Permission of instructor.

1-3 hrs

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GEOLOGY 5598 I Special Topics In Urban Environmental Geology

1-3 hrs

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GEOLOGY 5598 J Special Topics In Urban Environmental Geology: Environmental Sci

1-3 hrs

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GEOLOGY 5598 K 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.

1 hr

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GEOLOGY 5598 M Special Topics In Geostatistics And Modeling

Advanced independent research in geostatistics and modeling techniques. Prerequisite: Permission of instructor Offered: On demand

1-3 hrs

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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.

1-9 hrs

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GEOLOGY 5690 Special Research Topics

Student will produce a major research paper suitable for publication under the direction of their instructor.

1-3 hrs

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GEOLOGY 5699 R Research And Dissertation

Research for dissertation in partial fulfillment of the Geosciences requirements for the Ph.D. degree.

1-10 hrs

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GEOLOGY 5899 Required Graduate Enrollment

1 hr

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History

HISTORY 5500 BB Special Topics in History for Graduate Students

3 hrs

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HISTORY 5500 C Special Topics In History For Graduate Studies

3 hrs

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HISTORY 5500 CL Cluster Course:Nordic Culture

3 hrs

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HISTORY 5500 CM Cluster Course: Mexico, Central America And The Human Condition

See course description for HISTORY 300CM.

3 hrs

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HISTORY 5500 CP Special Topics In History For Graduate Studies

1-3 hrs

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HISTORY 5500 CY Cluster Course: The Ancient World And The Cinema

3 hrs

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HISTORY 5500 CZ Special Studies History

1-3 hrs

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HISTORY 5500 Special Topics In History For Graduate Studies

3 hrs

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HISTORY 5500 G Special Topics in History for Graduate Students

3 hrs

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HISTORY 5500 Special Topics in History for Graduate Students

3 hrs

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HISTORY 5500 Special Topics in History for Graduate Students

3 hrs

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HISTORY 5500 H Special Topics In History For Graduate Students

3 hrs

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HISTORY 5500 Special Topics in History for Graduate Students

3 hrs

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HISTORY 5500 P Special Topics In History For Graduate Studies

1-3 hrs

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HISTORY 5500 R Special Topics In History For Graduate Studies

See course description HISTORY 400.

1-3 hrs

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HISTORY 5500 RC Special Topics In History For Graduate Studies

1-3 hrs

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HISTORY 5500 RD Special Topics In History For Graduate Studies

1-3 hrs

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HISTORY 5500 Special Topics In History For Graduate Studies

1-3 hrs

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HISTORY 5500 SS Special Topics In History For Graduate Studies

1-3 hrs

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HISTORY 5500 W Special Topics in History for Graduate Students

3 hrs

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HISTORY 5500 Z 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.

3 hrs

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HISTORY 5501 A 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

3 hrs

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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.

3 hrs

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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.

3 hrs

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HISTORY 5504 America, 1783-1828: The National Experience

See course description HISTORY 304.

3 hrs

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HISTORY 5505 America, 1828-1852: The Jacksonian Period

See course description HISTORY 305.

3 hrs

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HISTORY 5506 America, 1850-1877: Civil War And Reconstruction

See course description HISTORY 306.

3 hrs

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HISTORY 5506 A 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.

3 hrs

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HISTORY 5507 America 1877-1917: Development Of Industrial America

See course description HISTORY 307.

3 hrs

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HISTORY 5507 A 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.

3 hrs

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HISTORY 5508 A America 1914-1945: The Era Of The World Wars

See course description for HISTORY 308B.

3 hrs

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HISTORY 5508 B America 1945-Present: Our Times

See course description for HISTORY 308B.

3 hrs

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HISTORY 5511 Medieval Civilization I

See course description HISTORY 411.

3 hrs

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HISTORY 5512 Medieval Civilization II

See course description HISTORY 412R.

3 hrs

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HISTORY 5512 A 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.

3 hrs

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HISTORY 5512 B 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.

3 hrs

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HISTORY 5513 Renaissance

See course description HISTORY 413.

3 hrs

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HISTORY 5514 Reformation

See course description HISTORY 414.

3 hrs

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HISTORY 5515 B 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 415B. Graduate students will be held to a higher standard in terms of additional, in-depth historiographic research, writing, and discussion.

3 hrs

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HISTORY 5516 The French Revolution And Napoleon

See course description HISTORY 416R. Fall.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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HISTORY 5523 Social History Of Recent America

See course description HISTORY 323R.

3 hrs

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HISTORY 5525 R 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.

3 hrs

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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.

3 hrs

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HISTORY 5526 R The Scientific Revolution 1500-1700

See course description HISTORY 426R.

3 hrs

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HISTORY 5527 The Darwinian Revolution, 1650-1900

See course description HISTORY 427R.

3 hrs

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HISTORY 5528 A 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.

3 hrs

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HISTORY 5528 B 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."

3 hrs

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HISTORY 5530 The Ordeal Of Total War Europe,1900- 1950

This upper-division course traces the history of Europe-on its own and in its relations to the rest of the world from its use of genocide "beyond" its shores to its systematic application in Europe. It will survey significant trends in warfare, politics, economics, social relations and culture, paying particular attention to the causes for war and the expansion of violence, modernization and modernity, democracy and totalitarianism, colonization and resistance, mass destruction and everyday life. Also offered for undergraduates as 43.0. Graduate students will be held to a higher standard in terms of additional, in-depth historiographic research, writing, and discussion.

3 hrs

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HISTORY 5531 Medieval England, 1066 To 1485

See course description HISTORY 431R.

3 hrs

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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.

3 hrs

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HISTORY 5533 Modern Britain, 1603-Present

This course examines the rise and fall of the Stuart dynasty and the effects of civil war, rebellion, and religious turmoil on the peoples of Britain. Next, the establishment of Cabinet government in the eighteenth century, and the loss of the American colonies will be discussed. The dramatic transformation of Britain from a largely isolated and agricultural society to an urban and the industrial one, will be analyzed with particular reference to class, race, and gender. Finally, the role of Britain in both world wars will be considered along with the institution of the welfare state and the transformation of Britain from a world power to a member of the European community of states.

3 hrs

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HISTORY 5535 R Early Modern German History: 1640-1890

This course traces the emergence specific, centralized nationstates and empires as well as a particular, industrial society in the 250 years since the Thirty-year's War. It introduces students to the national histories of Germany in order to help them think critically about national historiography in general. We will compare the many variations within Central Europe: Prussia/Austria/the Third Germany, city/town/village, state/ society, as well as differences of caste/class/gender/ sexuality/religion. All assigned readings will be in English; a background knowledge of European history is recommended. This course will be followed by HISTORY 536: the contents and assignments will be coordinated, but the former course is not a prerequisite for the latter.

3 hrs

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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.

3 hrs

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HISTORY 5537 Nazi Germany

See course description HISTORY 437.

3 hrs

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HISTORY 5544 Islam & The Arabs: The Formative Period

See course description HISTORY 444R.

3 hrs

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HISTORY 5545 The Ottoman Empire In The Middle East To Wwi

See course description HISTORY 445.

3 hrs

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HISTORY 5546 The Middle East From World War I To The Present

See course description HISTORY 446R.

3 hrs

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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.

3 hrs

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HISTORY 5553 Immigrants And Immigration In American History

See course description HISTORY 353.

3 hrs

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HISTORY 5554 Women In Modern America

See course description HISTORY 354R.

3 hrs

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HISTORY 5555 A Indians Of South America And The European Invasion

See course description HISTORY 355A.

3 hrs

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HISTORY 5555 BA Indians Of North America To 1789

The history of the native peoples of North America from their origins to the era of the American Revolution. Prerequisite: None. Offered: Fall.

3 hrs

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HISTORY 5555 BB Indians Of North America Since 1789

The history of the native people of North America (Indians and Inuit) and their interaction with the European invaders since 1789. This course is the sequel to HISTORY 555BA, Indians of North America to 1789. Prerequisite: None. Offered: Winter.

3 hrs

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HISTORY 5556 Rise Of The City In The U.S.

See course description HISTORY 356.

3 hrs

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HISTORY 5556 R Kansas City: History Of A Regional Metropolis

See course description HISTORY 356R.

3 hrs

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HISTORY 5557 The American West

See course description for HISTORY 357.

3 hrs

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HISTORY 5558 R History Of The American South

See course description for HISTORY 358R.

3 hrs

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HISTORY 5559 R The Confederacy And The Myth Of The Lost Cause

See course description for HISTORY 359R.

3 hrs

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HISTORY 5561 R American Foreign Relations

See course description for HISTORY 361.

3 hrs

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HISTORY 5562 J 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.

3 hrs

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HISTORY 5563 R Military History Of The U.S.

See course description for HISTORY 363.

3 hrs

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HISTORY 5566 R 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.

3 hrs

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HISTORY 5566 RR 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.

3 hrs

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HISTORY 5567 RS 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.

3 hrs

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HISTORY 5570 Introduction To Material Culture

See course description for HISTORY 370.

3 hrs

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HISTORY 5570 R Ancient Egypt

See course description for HISTORY 470.

3 hrs

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HISTORY 5571 R Ancient Greece

See course description for HISTORY 471.

3 hrs

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HISTORY 5572 R Ancient Rome

See course description for HISTORY 472.

3 hrs

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HISTORY 5573 R History Of Astronomy

See course description for HISTORY 473.

3 hrs

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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.

3 hrs

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HISTORY 5575 R The History Of Ancient Israel

See course description for HISTORY 475.

3 hrs

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HISTORY 5576 R Medieval Jewish History

See course description for HISTORY 476.

3 hrs

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HISTORY 5577 R Modern Jewish History

See course description for HISTORY 477.

3 hrs

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HISTORY 5578 R The Holocaust And The State Of Israel

See course description for HISTORY 478.

3 hrs

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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.

3 hrs

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HISTORY 5581 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.

3 hrs

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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.

3 hrs

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HISTORY 5582 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.

3 hrs

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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 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.

3 hrs

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HISTORY 5583 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

3 hrs

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HISTORY 5584 Philosophy Of History

Reflecting the instructor's interests and familiarity with the subject, this course will treat the philosophy of history under two relatable forms: (1) the speculative systems of interpretation of world history from Voltaire, through Hegel and Marx to Spengler and Toynbee; and (2) the newer, critical approaches to history and historiography by historicist, analytic, and Marxist philosophers and historians of this past century, from Dilthey, through Collingwood and Ortega to Skinner and Braudel. Depending upon whether the instructor happens to be a specialist in European or in American History the emphasis of content during the course will be altered accordingly.

3 hrs

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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.

3 hrs

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HISTORY 5585 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.

3 hrs

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HISTORY 5586 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

3 hrs

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HISTORY 5587 R 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.

3 hrs

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HISTORY 5587 RA Research Seminar

3 hrs

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HISTORY 5587 RB Research Seminar**3 hrs**[back to top](#)**HISTORY 5591 Archival Methods****3 hrs**[back to top](#)**HISTORY 5592 Archival Internship****1-3 hrs**[back to top](#)**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.

3 hrs[back to top](#)**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.

1-6 hrs[back to top](#)**HISTORY 5599 R 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.

1-6 hrs[back to top](#)**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.

3 hrs[back to top](#)**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.

3 hrs[back to top](#)**HISTORY 5687 RA 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.

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HISTORY 5687 RB 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.

3 hrs

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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.

1-6 hrs

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HISTORY 5699 R Dissertation

Course credits in dissertation.

1-15 hrs

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HISTORY 5899 Required Graduate Enrollment

1 hr

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Mathematics

MATH 5509 General Algebra I

Groups, rings, modules, homology, fields and Galois theory, valuations, matrices, and multilinear algebra. Prerequisite: MATH 410 or equivalent. Note: Continued in MATH 5519.

3 hrs

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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.

3 hrs

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MATH 5513 Real Variables I

Theory of measure with applications to analysis. Riemann and Lebesgue integration. Note: Continued in MATH 5523. Prerequisite: MATH 402.

3 hrs

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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 220, MATH 301, and one of MATH 402 or MATH 410 Offered: Every Winter

3 hrs

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MATH 5517 Matrix Theory I

Unitary matrices, normal matrices, Jordan canonical form, nonnegative matrices and their applications, the symmetric eigenvalue problem. Prerequisites: MATH 402 and MATH 420, or consent of the instructor

3 hrs

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MATH 5519 General Algebra II

Continuation of MATH 5509.

3 hrs

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MATH 5520 Complex Variables II

Continuation of MATH 5510.

3 hrs

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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.

3 hrs

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MATH 5523 Real Variables II

Continuation of MATH 5513.

3 hrs

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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 220, MATH 301, and one of MATH 402 or MATH 410 Offered: Every Fall on Demand

3 hrs

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MATH 5530 Axiomatic Set Theory

Zermelo-Fraenkel set theory, transfinite induction equivalents of the axiom of choice, cardinal and ordinal arithmetic, the generalized continuum hypothesis, inaccessible cardinals.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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MATH 5552 General Topology

Topological spaces, continuity, metric spaces, topological products, connectedness, compactness, separation axioms, convergence, metrization theorems, Tychynoff's Theorem. Other topics may include: homotopy, fundamental group, function spaces. Prerequisites: MATH 402, or consent of instructor

3 hrs

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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

3 hrs

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MATH 5590 Special Topics

Selected topics in various fields of mathematics. May be repeated for credit when the topic varies. Prerequisite: Consent of instructor.

1-3 hrs

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MATH 5699 Research And Thesis

Doctoral dissertation.

1-16 hrs

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MATH 5899 Required Graduate Enrollment

1 hr

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Philosophy

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.

3 hrs

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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.

2 hrs

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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.

3 hrs

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PHILOS 5620 Descartes To Hume

3 hrs

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PHILOS 5625 Aesthetics

3 hrs

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PHILOS 5638 Philosophy Of Biology

3 hrs

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PHILOS 5640 Philosophy Of Law

3 hrs

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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.

1-3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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: Winter Odd years

3 hrs

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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

3 hrs

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PHYSICS 5531 Quantum Mechanics II

Time dependent perturbation theory, scattering, applications to atoms, molecules and nuclei, reactions, relativistic methods. Offered: Winter even years

3 hrs

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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: Fall Even Years.

3 hrs

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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 Even Years.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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PHYSICS 5570 Quantum Theory Of Solids I

Lattice dynamics and thermal conductivity. Neutron scattering. Symmetry principles in crystals and consequences. Point group, space group and irreducible representations. Energy band theory and methods of band calculation. Elementary Theory of Magnetism. Spin wave theory. Offered: Winter Odd Years.

3 hrs

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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.

3 hrs

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PHYSICS 5580 Physics Seminar

Contemporary publications and research.

1 hr

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PHYSICS 5590 Topics In Physics

Contemporary publications and research.

1-3 hrs

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PHYSICS 5590 A Topics In Physics

Contemporary publications and research.

1-3 hrs

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PHYSICS 5590 B Special Topics

1-3 hrs

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PHYSICS 5595 L 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.

3 hrs

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PHYSICS 5599 Research And Thesis

Research for thesis in partial fulfillment of the master's degree in physics.

1-9 hrs

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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.

3 hrs

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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.

1-2 hrs

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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.

1-3 hrs

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PHYSICS 5699 Research And Dissertation

Research for dissertation in partial fulfillment of the Ph.D. degree requirements in physics.

1-9 hrs

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PHYSICS 5899 Required Graduate Enrollment

1 hr

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Political Science

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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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POL-SCI 5530 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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POL-SCI 5575 Political Ideologies

Consideration of political ideologies and their effects, with in-depth research into selected topics.

3 hrs

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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.

3 hrs

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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.

1-6 hrs

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POL-SCI 5599 Thesis

Directed specialized research.

1-6 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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POL-SCI 5697 A Doctoral-Level Ir: American National Politics And Institutions

3 hrs

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POL-SCI 5697 I Doctoral-Level Ir: International Politics And Processes

3 hrs

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POL-SCI 5697 L Doctoral-Level Ir: Public Law

3 hrs

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POL-SCI 5697 O Doctoral-Level Ir: Public Opinion And Voter Behavior

3 hrs

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POL-SCI 5697 R Doctoral-Level Ir: Research Methods

3 hrs

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POL-SCI 5697 T Doctoral-Level Ir: Political Theory

3 hrs

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POL-SCI 5697 U Doctoral-Level Ir: Urban And State Politics

3 hrs

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POL-SCI 5699 Research And Dissertation

Directed specialized research.

1-12 hrs

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POL-SCI 5899 Required Graduate Enrollment

1 hr

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Psychology

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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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PSYCH 5510 Assessment Methods In Professional Counseling

This course provides an understanding of assesment 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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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PSYCH 5516 Quant Analysis 1: 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 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, tests 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.

3 hrs

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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&P 606. Offered: Winter.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

4 hrs

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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.

3 hrs

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PSYCH 5575 A Professional Issues & Ethics

3 hrs

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PSYCH 5580 Special Topics

1-3 hrs

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PSYCH 5580 AD Special Topics**1-3 hrs**[back to top](#)**PSYCH 5580 SM Special Topics****1-3 hrs**[back to top](#)**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.

3 hrs[back to top](#)**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.

3 hrs[back to top](#)**PSYCH 5590 Directed Research****1-6 hrs**[back to top](#)**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

3 hrs[back to top](#)**PSYCH 5599 Research And Thesis****1-9 hrs**[back to top](#)**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.

3 hrs[back to top](#)**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.

3 hrs[back to top](#)

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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

1-6 hrs

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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

1-6 hrs

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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.

1-12 hrs

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PSYCH 5699 Research And Dissertation

1-16 hrs

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PSYCH 5899 Required Graduate Enrollment

1 hr

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Religious Studies

RELIG-ST 5500 Special Topics In Religious Studies

Special topics in religious studies. The focus of the course will vary by semester and instructor.

1-3 hrs

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RELIG-ST 5500 A Special Topics In Religious Studies

1-3 hrs

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RELIG-ST 5500 B Special Topics In Religious Studies

1-3 hrs

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RELIG-ST 5500 D Special Topics in Religious Studies

1-3 hrs

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RELIG-ST 5500 Special Topics In Religious Studies

1-3 hrs

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RELIG-ST 5501 A 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

3 hrs

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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.

3 hrs

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RELIG-ST 5503 Visions, Dreams, and Prophecies as Religious Phenomena

This course explores the way visions, dreams, and prophecies have acquired religious significance in Western and non-western contexts from the ancient to the present.

3 hrs

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RELIG-ST 5504 Gender and Religion

Cross-cultural and comparative study of how religious groups create and transmit gender roles and expectations.

3 hrs

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RELIG-ST 5506 The History of Christianity though 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

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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RELIG-ST 5584 RS 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 reoralization 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.

3 hrs

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RELIG-ST 5586 RS 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.

3 hrs

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RELIG-ST 5587 RS 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.

3 hrs

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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 NRMs-e.g., deprogramming exit counseling, and theologically oriented countermovement. Offered: On demand

3 hrs

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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

3 hrs

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RELIG-ST 5594 RS 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.

3 hrs

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RELIG-ST 5595 RS 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.

3 hrs

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RELIG-ST 5596 RS 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.

3 hrs

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RELIG-ST 5597 RS 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.

1-6 hrs

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RELIG-ST 5598 RS 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.

3 hrs

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RELIG-ST 5680 RS 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.

3 hrs

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RELIG-ST 5687 RS 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.

3 hrs

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RELIG-ST 5697 RS 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.

1-6 hrs

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RELIG-ST 5699 RS Dissertation

Course credits in dissertation.

1-15 hrs

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RELIG-ST 5899 Required Graduate Enrollment

1 hr

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Social Science

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.

3 hrs

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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: SOC-SCI 5610

3 hrs

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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.

3 hrs

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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

3 hrs

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SOC-SCI 5690 Special Doctoral Reading in Social Science

Special Research Topic in Interdisciplinary Social Science at The Doctoral Level

1-3 hrs

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SOC-SCI 5690 A Special Topics

1-3 hrs

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SOC-SCI 5690 B Special Topics**1-3 hrs**[back to top](#)**SOC-SCI 5690 C Special Topics****1-3 hrs**[back to top](#)**SOC-SCI 5899 Required Graduate Enrollment****1 hr**[back to top](#)

Social Work

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.

3 hrs[back to top](#)**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.

3 hrs[back to top](#)**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.

3 hrs[back to top](#)**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.

3 hrs[back to top](#)**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 key course concepts.

3 hrs[back to top](#)

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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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SOC-WK 5537 Quantitative Social Work Research Methods

This course is designed to prepare graduate level students to develop a comprehensive understanding of statistical method application to social work research. Students will gain a basic understanding of the research and statistical procedure that are needed for clinicians/researcher 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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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SOC-WK 5562 Family Organization and Development: Multi-systems Interventions

This course examines developmental, structural, systemic family therapy and multi-system interventions. Prerequisites: Completion of Social Work Foundation

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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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/mangagement, social action/community building and advocacy, research/evaluation and leadership skills. Students prepare a major project for presentation.

3 hrs

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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.

1-3 hrs

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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.

1-3 hrs

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Sociology

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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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, legitimization of power, and the interrelationships of formal structures.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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SOCIOL 5556 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.

2 hrs

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SOCIOL 5557 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.

1 hr

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SOCIOL 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

3 hrs

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SOCIOL 5560 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.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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SOCIOL 5580 A Special Studies In Sociology

1-3 hrs

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SOCIOL 5580 B Special Studies In Sociology

1-3 hrs

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SOCIOL 5580 C Special Studies In Sociology

1-3 hrs

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SOCIOL 5580 Special Studies In Sociology

1-3 hrs

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SOCIOL 5580 D Special Studies In Sociology

1-3 hrs

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SOCIOL 5580 Special Studies In Sociology

1-3 hrs

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SOCIOL 5580 Special Studies In Sociology

1-3 hrs

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SOCIOL 5580 J Special Studies In Sociology

1-3 hrs

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SOCIOL 5580 R Special Studies In Sociology

1-3 hrs

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SOCIOL 5580 Special Studies in Sociology

1-3 hrs

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SOCIOL 5580 Special Studies in Sociology

1-3 hrs

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SOCIOL 5595 Directed Research Experience

Research project supervised by faculty.

3 hrs

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SOCIOL 5597 Independent Readings

Intensive readings in an area selected by the student with prior consultation with the instructor.

1-3 hrs

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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.

1-6 hrs

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SOCIOL 5699 Dissertation Research

Individual directed research leading to preparation and completion of doctoral dissertation.

1-12 hrs

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SOCIOL 5899 Required Graduate Enrollment

1 hr

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Spanish

SPANISH 5514 The Generation of 1898

An examination of the intellectual, critical, historical and social problems as reflected in the writings of Ganivet, Unamuno, Valle-Inclan, Baroja, Azorin, and others.

3 hrs

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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.

3 hrs

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SPANISH 5519 Federico Garcia Lorca

A study in depth of the poetry and drama of Federico Garcia Lorca.

3 hrs

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SPANISH 5520 Cervantes' Don Quixote, Part 1

An intensive reading of the first part of Cervantes' novel, Don Quixote.

3 hrs

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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

3 hrs

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SPANISH 5526 Golden Age Drama

A study in depth of the creation of national theater by Lope de Vega and his followers.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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SPANISH 5553 Spanish-American Short Story

A study of Spanish-American short stories from Romanticism to the present. On demand.

3 hrs

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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.

1-3 hrs

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SPANISH 5580 D Special Topics

1-3 hrs

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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.

1-3 hrs

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Statistics

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

3 hrs

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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.

3 hrs

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STAT 5547 Mathematical Statistics II

Continuation of STAT 5537.

3 hrs

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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: STAT 436 or consent of instructor Offered: Every other Winter

3 hrs

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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 note: This course will be offered every other winter.

3 hrs

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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 436 or consent of instructor Offered: On Demand

3 hrs

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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 or consent of instructor Offered: Every other Fall

3 hrs

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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 412 Offered: Every Fall

3 hrs

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STAT 5578 Advanced Mathematical Statistics

Exponential and location families, principles of data reduction, asymptotic distributions, advanced theory of estimation and hypothesis testing.

3 hrs

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STAT 5590 Special Topics

Selected topics in various fields of mathematics. May be repeated for credit when the topic varies. Prerequisite: Consent of instructor.

1-3 hrs

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Theatre

THEATRE 5500 RA 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.

1-2 hrs

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THEATRE 5501 R 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.

2 hrs

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THEATRE 5506 RR 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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THEATRE 5512 R History Of The English Stage I

The English stage and its arts, crafts and literature from the medieval cycles through the Restoration.

3 hrs

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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.

3 hrs

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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.

3 hrs

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THEATRE 5515 R 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.

3 hrs

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THEATRE 5516 A 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.

3 hrs

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THEATRE 5516 B Technical Production for The Practitioner

See course description for THEATRE 5516A.

3 hrs

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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.

1-2 hrs

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THEATRE 5520 L Individual Performance Studies

1-2 hrs

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THEATRE 5521 A 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.

3 hrs

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THEATRE 5521 B Professional Sound Design

3 hrs

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THEATRE 5521 C 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.

3 hrs

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THEATRE 5521 D 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.

3 hrs

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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.

3 hrs

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THEATRE 5531 R 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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THEATRE 5539 Scene Painting II

A practicum course in scene painting techniques with emphasis on painting interior drops, exterior landscapes and three-dimensional pieces.

3 hrs

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THEATRE 5540 Pattern Drafting And Cutting

Theory and laboratory study of the techniques and methods employed in drafting patterns for the professional stage.

3 hrs

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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.

3 hrs

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THEATRE 5546 Professional Acting Techniques II

Continuation of THEATRE 5545 with emphasis on the application of the first semester's work through scene study of contemporary plays and monologues.

3 hrs

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THEATRE 5547 Professional Acting Techniques III

Concentration on non-naturalistic styles. Work on scenes from Shakespeare and other classical playwrights.

3 hrs

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THEATRE 5548 Professional Acting Techniques Iv

Work on audition material and further scene work dealing with specific individual acting problems.

3 hrs

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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.

2 hrs

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THEATRE 5551 Rendering Techniques for the Theatre Designer III

Developing techniques for rendering in realistic settings: interiors, landscapes, fabric and furnishings.

3 hrs

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THEATRE 5552 R 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.

3 hrs

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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

3 hrs

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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

3 hrs

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THEATRE 5562 Actor Practicum

A contemporary scene study class for actors. Actors test their acquired process skills with major emphasis placed on characterization.

3 hrs

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THEATRE 5563 Text Analysis I

Linear analysis of selected prose dramas with concentration on character delineation, images and motivation for actors and directors.

3 hrs

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THEATRE 5564 Text Analysis II

Continuation of THEATRE 5563 with emphasis on verse plays. Selected playwrights from the Greek and Elizabethan periods will be included along with modern verse dramatists.

3 hrs

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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.

3 hrs

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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.

3 hrs

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THEATRE 5568 Seminar In Dramaturgy

Critical analysis of dramatic structure and techniques, with special reference to modern and contemporary drama.

3 hrs

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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 THEATRE 5569.

2 hrs

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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.

3 hrs

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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.

2 hrs

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THEATRE 5573 Professional Technical Production

Detailed study and experimentation with recent scenic materials, scenery construction, rigging systems, use of metal and special effects.

3 hrs

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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.

1 hr

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THEATRE 5575 R Property Construction

Construction techniques and materials used to make and modify set and hand properties and set dressing.

3 hrs

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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.

3 hrs

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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.

3 hrs

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THEATRE 5579 R 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 THEATRE 5579.

2 hrs

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THEATRE 5580 R 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.

2 hrs

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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.

2 hrs

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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.

2 hrs

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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 THEATRE 430 strongly suggested.

3 hrs

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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.

3 hrs

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THEATRE 5587 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

3 hrs

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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.

3-6 hrs

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THEATRE 5590 A Directed Graduate Studies

3-6 hrs

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THEATRE 5590 B Directed Graduate Studies: Design

3-6 hrs

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THEATRE 5590 C Directed Graduate Studies: Costumes

3-6 hrs

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THEATRE 5590 D Directed Graduate Studies: Scenic Design

3-6 hrs

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THEATRE 5590 Directed Graduate Studies: Directing

3-6 hrs

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THEATRE 5590 F Directed Graduate Studies

3-6 hrs

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THEATRE 5590 G Directed Graduate Studies: Lighting

3-6 hrs

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THEATRE 5590 H Directed Graduate Studies: Playwriting

3-6 hrs

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THEATRE 5590 I Directed Graduate Studies

3-6 hrs

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THEATRE 5590 J Directed Graduate Studies: Stage Management

3-6 hrs

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THEATRE 5590 K Directed Graduate Studies: Technical Production

3-6 hrs

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THEATRE 5590 L Directed Graduate Studies: Theatre Management

3-6 hrs

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THEATRE 5590 M Directed Graduate Studies: Theory And Criticism

3-6 hrs

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THEATRE 5590 N Directed Graduate Studies: Dramaturgy

3-6 hrs

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THEATRE 5590 R Directed Graduate Studies

3-6 hrs

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THEATRE 5590 S Directed Graduate Studies

3-6 hrs

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THEATRE 5590 T Directed Graduate Studies

3-6 hrs

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THEATRE 5592 A Seminar on Stage Management Practice

MFA student stage managers meet one hour a week with the Production Manager of 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

1 hr

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THEATRE 5592 B Seminar on Stage Management Practice

MFA student stage managers meet one hour a week with the Production Manager of 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

1 hr

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THEATRE 5592 C Seminar on Stage Management Practice

MFA student stage managers meet one hour a week with the Production Manager of 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

1 hr

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THEATRE 5592 D Seminar on Stage Management Practice

MFA student stage managers meet one hour a week with the Production Manager of 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

1 hr

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THEATRE 5592 Seminar on Stage Management Practice

MFA student stage managers meet one hour a week with the Production Manager of of both Kansas City Reprertory 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

1 hr

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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.

3-6 hrs

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THEATRE 5598 R Research And Performance

Primarily for the M.F.A. student. Permission of the graduate faculty.

1-6 hrs

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THEATRE 5599 Research And Thesis

1-6 hrs

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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.

6 hrs

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THEATRE 5899 Required Graduate Enrollment

1 hr

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Urban Planning and Design

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

1-3 hrs

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UPD 5596 A 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

1-3 hrs

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UPD 5596 B 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

1-3 hrs

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UPD 5596 C 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

1-3 hrs

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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
1-3 hrs

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UPD 5599 A 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
1-3 hrs

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UPD 5599 B 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
1-3 hrs

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UPD 5599 C 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
1-3 hrs

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UPD 5630 Quantitive 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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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School of Biological Sciences

School of Biological Sciences Courses Biology

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.

3 hrs

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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, LS-BIOC 360, upper level undergraduate biochemistry or molecular genetics course, or permission of instructor.

3 hrs

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BIOLOGY 5534 Cardiovascular Pulmonary Physiology

Function of the cardiovascular and pulmonary systems at the cellular, tissue, and system levels with particular emphasis on regulation, maintainancy of homeostasis and integration with other systems. Consent number required. Restricted to SBS graduate students and interdisciplinary Ph.D students. Prerequisites: LS-PHYSICS 316 or equivalent.

3 hrs

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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-PHYSICS 316 or equivalent. Restricted to SBS graduate students and interdisciplinary Ph.D students. Consent required. Offered: Every Fall

4 hrs

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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

3 hrs

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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.

1-6 hrs

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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.

1-6 hrs

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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.

1-4 hrs

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BIOLOGY 5899 Required Graduate Enrollment

1 hr

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Life Sciences

LIFE-SCI 5899 Required Graduate Enrollment

1 hr

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Life Sciences- Cellular Biology and Biophysics

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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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LS-CBB 5530 Cell and Molecular Biology I

Molecular aspects of gene structure and function in prokaryotic and eukaryotic organisms and their viruses. Emphasis in genome structure and organization and regulation of gene expression. Prerequisite or corequisite: LS-MBB 5561 .

3 hrs

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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

2 hrs

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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.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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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.

1-6 hrs

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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.

2 hrs

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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.

2 hrs

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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.

1-12 hrs

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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.

1 hr

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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 LSMBB 5562; admission in I.Ph.D program with CBB as coordinating or co-discipline; can only be taken prior to reaching candidacy.

1-4 hrs

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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.

1-12 hrs

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Life Sciences- Molecular Biology and Biochemistry

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 Co-requisite: LS-MBB 5561 and LS-MBB 5562.

3 hrs

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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.

3 hrs

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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

2 hrs

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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.

4 hrs

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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.

4 hrs

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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.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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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.

1-6 hrs

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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.

2 hrs

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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.

2 hrs

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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.

1-12 hrs

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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.

1 hr

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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.Ph.D. program with MBB as coordination or co-discipline; can only be taken prior to reaching candidacy.

1-4 hrs

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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.

1-12 hrs

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Henry W. Bloch School of Business and Public Administration

Henry W. Bloch School of Business and

Public Administration Courses Accounting

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.

3 hrs

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ACCTNG 5539 Accounting Information For Management Planning & Control

This course covers the use of financial information in management decision-making. Topics include profitability and performance measurement issues, and activity-based management and decision support. Prerequisites: Admission to Executive MBA program

2 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 eqiovalent. Not open to students who have completed ACCTNG 405 or equivalent.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

2 hrs

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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

3 hrs

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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.

1 hr

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ACCTNG 5597 Independent Study

Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of instructor.

1-6 hrs

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ACCTNG 5597 B Special Topics In Accounting:Cost/Managerial Accounting Theory

1-3 hrs

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ACCTNG 5597 G Special Topics In Accounting:Personal Financial Planning

1-3 hrs

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ACCTNG 5899 Required Graduate Enrollment

1 hr

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Business Management and Administration Decision Science and Operations Management

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.

3 hrs

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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

2 hrs

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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: BDS 5508 or DSOM 5508, or equivalent.

3 hrs

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DSOM 5516 Multivariate Statistical Methods

Theory and managerial applications of multiple regression analysis, multivariate analysis of variance, discriminant analysis, factor analysis and canonical correlation. Computations via statistical software and spreadsheets. Prerequisite: BDS 5508 or DSOM 5508 or equivalent.

3 hrs

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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: BDS 5508 or DSOM 5508, FIN 5501, ACCTNG 5517

3 hrs

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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: BUS-ADM 5519 or DSOM 5519 or equivalent or consent of the instructor.

3 hrs

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DSOM 5541 Total Quality Management

An in-depth study of managing an effective system of quality in organizations. Coverage includes the key TQM concepts developed by Demming, Juran, and Crosby, and others, a quality process model, primary considerations in planning and implementing a quality process, and familiarization with the tools used to plan and manage quality throughout the organization. Prerequisite: BUS-ADM 5519 DSOM 5519

3 hrs

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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: BUS-ADM 5519 or DSOM 5519.

3 hrs

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DSOM 5543 Project Management

Planning and control of projects, to include network models, risk analysis, time reduction, resource scheduling, leadership, and evaluation. Prerequisite: BUS-ADM 5519 or DSOM 5519 or equivalent.

3 hrs

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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

3 hrs

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DSOM 5566 Operations Management for World Class Competitiveness

An examination of the basic principles and strategic used to manage the production and distribution of goods and services. This course position operations management (OM) as an important tool for achieving strategic leadership through competitive advantage, and illustrates how the managerial integration of OM functions with cooperate strategy provides frameworks and tolls for dramatically improving business processes. Prerequisite: Admission to the Executive MBA program

2 hrs

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DSOM 5569 Managing Quality & Suppliers for Competitive Advantage

The development and integration of quality improvement programs such as total quality management, Six Sigma and supply chain management as essential strategic tools for competitive advantage. Major principles, techniques and systems are presented as tools to stimulate product/service improvements and innovations and as means of achieving strategic market leadership. Prerequisite: Admission to the Executive MBA Program

2 hrs

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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

3 hrs

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DSOM 5595 Internship

An opportunity for students to integrate their academics studies via employment with a business/organization in the community. Prerequisite: admission only by prior approval and consent of instructor.

1-3 hrs

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DSOM 5597 Independent Study

Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of the instructor.

1-6 hrs

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DSOM 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: BDS 5548 or DSOM 5516 or equivalent.

3 hrs

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DSOM 5899 Required Graduate Enrollment

1 hr

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Entrepreneurship

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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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: BUS-ADM 5531 or MKT 5531, BUS-ADM 5532 or FIN 5532, BMA 5506 MGT 5506 or equivalents.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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ENT 5546 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

2 hrs

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ENT 5547 Innovation & Entrepreneurship II

This course, the second of a two-course sequence, covers the entrepreneurial and innovation process from conception to birth of a 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 without existing organizations, with an emphasis on nurturing a climate of innovation. Students will identify opportunities for high-growth potential new enterprises, develop a business plans, and present their plans to a panel of potential investors and/or senior managers. Prerequisite: Admission to the Executive MBA Program, ENT 5546

2 hrs

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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

1 hr

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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

1 hr

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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: BUS-ADM 5532 or FIN 5532 and one of the following ENT 5515, ENT 5525, ENT 5535, ENT 5541, or ENT 5545 (or equivalents)

3 hrs

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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.

1-6 hrs

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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.

3 hrs

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ENT 5595 Internship

An opportunity for students to integrate their academics studies via employment with a business/organization in the community. Prerequisite: admission only by prior approval and consent of instructor.

1-3 hrs

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ENT 5597 Independent Study

Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of instructor

1-6 hrs

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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: BDS 5548 or DSOM 5516, or equivalent

3 hrs

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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

3 hrs

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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.

3 hrs

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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: Doctoral standing

3 hrs

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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: IEI 691

3 hrs

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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

3 hrs

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ENT 5694 Doctoral Seminar In Theories Of The Firm 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

3 hrs

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ENT 5899 Required Graduate Enrollment

1 hr

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Finance

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.

3 hrs

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FIN 5503 Economic Analysis For Management

A study of relationships between economic theory and management of the firm in a market economy. Demand, revenue, and cost interrelationships are examined in the context of various market structures encountered in the American economy. The theoretical framework developed is used further to analyze economic problems involving the firm and the public interest. Prerequisites: BUS-ADM 5501, or FIN 5501 or equivalent.

3 hrs

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FIN 5506 Aggregate Economics Analysis and National Policy

The study of national and global economic activity. The course focuses on the interaction of fiscal and monetary policies with private sector and international forces, and the effects on GNP, interest rates, unemployment and inflation. Prerequisite: Admission to the Executive MBA Program

2 hrs

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FIN 5508 Financial Decisions And Societal Goals

Deals with the application of financial theory to cases in financial decision-making and relies upon the practical application of corporate financial models. Students will explore agency and signaling theories and their implications for organizational leaders and will come to understand the importance of corporate communications and its impact on firm value. Prerequisites: Admission to Executive MBA Program

2 hrs

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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.

2 hrs

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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, BDS 5508 or DSOM 5508, BUS-ADM 5501 or FIN 5501 or equivalents.

3 hrs

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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 BUS-ADM 5532 or FIN 5532 or equivalent.

3 hrs

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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: BUS-ADM 5532 or FIN 5532 or equivalent.

3 hrs

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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 BA 5532 or equivalent.

3 hrs

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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: BUS-ADM 5532 or FIN 5532 or equivalent.

3 hrs

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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: BUS-ADM 5532 or FIN 5532 or equivalent.

3 hrs

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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: BUS-ADM 5501 or FIN 5501, BUS-ADM 5532 or FIN 5532, BDS 5508 or DSOM 5508, AND ACCTNG 517 or equivalents.

3 hrs

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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: BUS-ADM 5532 or FIN 5532 or equivalent.

3 hrs

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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.

2 hrs

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FIN 5569 Advanced Organizational Finance

This course systematically examines three recurring financial challenges: what resources to acquire or sell, how to finance a business, and how much cash to distribute to owners in the form of dividends or share repurchases. Each topic is viewed on the practical level of how each affects accounting measures of performance and on the conceptual level of whether each creates or destroys value. Prerequisites: Admission to the Executive MBA program.

2 hrs

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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.

2 hrs

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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

3 hrs

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FIN 5595 Internship

An opportunity for students to integrate their academics studies via employment with a business/organization in the community. Prerequisite: admission only by prior approval and consent of instructor.

1-3 hrs

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FIN 5597 Independent Study

Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of the instructor.

1-6 hrs

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FIN 5899 Required Graduate Enrollment

1 hr

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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.

3 hrs

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HLTH-ADM 5575 Long-Term Care Policy & Administration

This course provides an overview of long-term care policy and administration, both for institutional and community-based services. Topics include public and private financing, regulatory systems, organization and management of care, and quality assurance. The course also emphasizes new developments in the field, such as managed long-term care systems, capitation and case mix reimbursement, and technologies for quality monitoring and assessment.

3 hrs

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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.

3 hrs

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HLTH-ADM 5578 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.

3 hrs

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HLTH-ADM 5580 Economics of Health and Med

A course designed to discuss economic analysis of the development of the medical market, organized medicine and the structure of the 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.

3 hrs

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HLTH-ADM 5581 Health Policy in the United States

This course helps students develop an understanding of the determinants of health, major current health policy issues, and health policy making in the United States. The public policy process and its effects on the organization, financing, and delivery of health care are examined in detail. The roles of key players in health policy formulation and the public policy responses to current health policy are also examined.

3 hrs

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HLTH-ADM 5586 Independent Study

Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Consent of instructor

1-6 hrs

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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

3 hrs

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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.

1-3 hrs

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Management

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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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MGT 5511 Legal Issues for Today's Leaders

The course will provide the necessary knowledge and tools to avoid creating liability for the employee and/or employer. More specifically, coverage will include a working knowledge of contracts and commercial law, torts, employer/employee rights, affiliate relationships, and government regulation. Participants will also gain the ability to recognize potential issues involving antitrust and fair trade, intellectual property, securities regulation, international law and environmental law. Prerequisites: Admission to the Executive MBA Program

2 hrs

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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 nationalization and planning and theory of managerial industrialism and business enterprise.

3 hrs

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MGT 5516 Leading Teams

This course is designed to increase the student's understanding of team processes in organizational settings and to contribute to the student's ability to build and lead high-performing teams. The class will be utilized as a laboratory for the exploration of team leadership theory and research. Prerequisite: BMA 5505 or MGT 5505 or equivalent.

3 hrs

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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

2 hrs

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MGT 5533 Leadership And Change In Organizations

Study of the dynamics of leadership and change in organizational contexts with attention to both theory and practice. Classroom activities can include lectures, case discussions, group presentations, and experiential activities. Prerequisite: BMA 5505 or MGT 5505, PUB-ADM 5548(or equivalents) or consent of instructor.

3 hrs

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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.

3 hrs

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MGT 5538 Strategic Management

The study of economic principles for 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

1-3 hrs

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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.

3 hrs

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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 the global companies. Prerequisite: Admission to the Executive MBA program

1-6 hrs

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MGT 5550 The Operation Of International Business

The course reviews the basic decision-making and operations taking place within international business. Attention will be given to export/import activities of firms including global marketing & sourcing, transportation, finance, customs clearance, & legal issues such as intellectual property rights & agent/distributor agreements. Prerequisite: BMA 5510 or MGT 5510 or equivalent.

3 hrs

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MGT 5552 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.

3 hrs

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MGT 5557 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

2 hrs

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MGT 5558 Managing People for Strategic Advantage: Design, Staffing And Development

This course focuses on managing human resources in the execution of strategy and the development of market-based cultures. Geared to the general manager, the course includes ideas and tools for identifying and recruiting talent, developing and coaching subordinates, appraising and rewarding performance, and delegating to balance control and risk. Prerequisites: Admission to the Executive MBA Program

1-3 hrs

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MGT 5560 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.

3 hrs

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MGT 5566 Strategic Staffing

This course presents theoretical frameworks and practical applications for determining optimal person-organization fit and person-job fit within organizations. Emphasis will be placed on integrating recruitment and selection strategies and practices with overall business strategies. 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.

3 hrs

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MGT 5567 Total Rewards Management

This course presents both theory and practice for designing effective rewards systems within organizations. Compensation (including base pay and incentives), benefits and performance management will be covered from a strategic perspective. Characteristics of the work environment, such as recognition, work/life balance, and culture will also be considered in terms of their contribution to the total rewards systems.

3 hrs

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MGT 5569 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.

2 hrs

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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 of 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.

2 hrs

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MGT 5573 Strategic Management I

Strategic Management I is the first course in a two-part series entitled, "The EMBA Project", and is intended to provide opportunity to (a) sensitively develop an agreement with the client based on EMBA curriculum/concepts, client needs, and team interests; (b) undertake a project that fits those parameters; and (c) assist the client company in implementation (or planning thereof) of the project findings. The projects are intended to provide opportunity for the EMBA students to develop strategic, organizational, and operation insights. Prerequisites: Admission to the Executive MBA program.

1 hr

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MGT 5582 Managing People For Strategy Execution

The focus of this course is producing, for an organization, a sustainable competitive advantage through the effective management of people-the human resources of the organization. Prerequisite: Admission to Executive MBA program

2 hrs

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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.

3 hrs

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MGT 5595 Internship

An opportunity for students to integrate their academics studies via employment with a business/organization in the community. Prerequisite: admission only by prior approval and consent of instructor.

1-3 hrs

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MGT 5597 Independent Study

Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of the instructor.

1-6 hrs

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MGT 5899 Required Graduate Enrollment

1 hr

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Management Information Systems

MIS 5502 Elements of Management Information Systems

Fundamental concepts of hardware, software, networking, system life cycle, enterprise systems, and strategic systems in a business context. The course includes an overview of techniques in programming and web publishing.

3 hrs

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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.

3 hrs

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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.

2 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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MIS 5569 Information Systems Consulting

An application of systems concepts to the evaluation and implementation of information system. Student teams will analyze, document and make recommendations for the improvement of these systems, and will communicate their findings via written reports and oral presentation. Project management concepts will be covered as well. Course content might be actual projects for local organizations, or it might be a simulation of a consulting engagement. Prerequisites: Instructor Permission

3 hrs

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MIS 5580 Seminar In Information Systems

This seminar is provided for students interested in exploring advanced MIS topics not covered in the regularly offered courses. The content of this seminar may change from one offering to the next.

3 hrs

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MIS 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

3 hrs

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MIS 5597 Independent Study

Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of the instructor.

1-6 hrs

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MIS 5899 Required Graduate Enrollment

1 hr

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Marketing

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.

3 hrs

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MKT 5539 Management In Direct Marketing

The organization, planning and control of direct marketing efforts as an integral part of an institution's total marketing program. This course synthesizes direct marketing efforts with the institution's other major functional areas in order to achieve efficiently overall organizational objectives. Prerequisite: BUS-ADM 5531 or MKT 5531, or equivalent.

3 hrs

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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: BUS-ADM 5531 or MGT 5531 and BMA 5510 or MGT 5510 or equivalents.

3 hrs

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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: BUS-ADM 5531 or MKT 5531 pr equivalent.

3 hrs

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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: BUS-ADM 5531 or MKT 5531 or equivalent.

3 hrs

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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: BUS-ADM 5531 or MKT 5531, BDS 5508 or DSOM 5508 or equivalents.

3 hrs

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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.

2 hrs

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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: BUS-ADM 5531 or MKT 5531 or equivalent.

3 hrs

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MKT 5576 Strategic Marketing

This course examines those market-based issues that have broad implications for strategy, such as market sizing, brand and competitive set, and product life cycles. Among strategies and business models discussed will be those tailored to start-ups and growing businesses, as well as businesses in mature and declining markets, with special emphasis on the challenges of differentiation in highly competitive industries. Prerequisite: Admission to the Executive MBA program

2 hrs

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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.

3 hrs

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MKT 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

3 hrs

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MKT 5595 Internship

An opportunity for students to integrate their academics studies via employment with a business/organization in the community. Prerequisite: admission only by prior approval and consent of instructor.

1-3 hrs

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MKT 5597 Independent Study

Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of the instructor.

1-6 hrs

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MKT 5899 Required Graduate Enrollment

1 hr

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Public Administration

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.

3 hrs

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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. Offered: Winter

2 hrs

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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.

3 hrs

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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.

3 hrs

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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; for health services students: HLTH-ADM 5571, PUB-ADM 5526, HLTH-ADMN 5578, PUB-ADM 5548, HLTH-ADMN 5580 (or equivalents), or concurrent enrollment

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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PUB-ADM 5555 A Topics In Nonprofit Fund Raising: Organizing For Successful Fund Raising

1-3 hrs

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PUB-ADM 5555 B Topics In Nonprofit Fund Raising: Creating & Implementing Annual Development Plans

1-3 hrs

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PUB-ADM 5555 C Topics In Nonprofit Fund Raising: Direct Marketing & Direct Mail In Fundraising

1-3 hrs

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PUB-ADM 5555 D Topics In Nonprofit Fund Raising: Planned Giving and Major Gift Solicitation

1-3 hrs

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PUB-ADM 5555 Topics In Nonprofit Fund Raising: Contemporary Trends/Ethical Issues In Fund Raising**1-3 hrs**[back to top](#)**PUB-ADM 5555 F Topics In Nonprofit Fund Raising: Prospect Research And Proposal Writing****1-3 hrs**[back to top](#)**PUB-ADM 5555 G Topics In Nonprofit Fundraising****1-3 hrs**[back to top](#)**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.

3 hrs[back to top](#)**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.

1-3 hrs[back to top](#)**PUB-ADM 5565 A Community Economic Development:The Planning Context****1 hr**[back to top](#)**PUB-ADM 5565 B Community Economic Development Tools & Techniques****1 hr**[back to top](#)**PUB-ADM 5565 C Implementing Effective Community Economic Development****1 hr**[back to top](#)**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.

3 hrs[back to top](#)

PUB-ADM 5581 Seminar In Urban Administration

Advanced work on special topics in urban administration. Topics will vary. Prerequisite: PUB-ADM 535.

3 hrs

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PUB-ADM 5585 Seminar In Public Affairs

Advanced work on special topics in public affairs.

3 hrs

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PUB-ADM 5585 A Seminar In Public Affairs

Advanced work on special topics in public affairs.

3 hrs

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PUB-ADM 5585 B Seminar In Public Affairs

Advanced work on special topics in public affairs.

3 hrs

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PUB-ADM 5585 C Seminar In Public Affairs

Advanced work on special topics in public affairs.

3 hrs

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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

3 hrs

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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.

1-3 hrs

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PUB-ADM 5597 Independent Study

Independent study and research in areas of special interest under individual faculty direction. Prerequisite: Preregistration consent of the instructor.

1-6 hrs

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PUB-ADM 5598 A Supervised Research: Nonprofit Management

1-6 hrs

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PUB-ADM 5598 C Supervised Research: Urban Administration

1-6 hrs

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PUB-ADM 5598 G Supervised Research: Unspecified**1-6 hrs**[back to top](#)**PUB-ADM 5599 Thesis****1-9 hrs**[back to top](#)**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.

3 hrs[back to top](#)**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 PA 5620A are: completion of PA 5525, PA 5526 and PA 5544 (or equivalent graduate level courses) and consent of the instructor. Prerequisites for PA 5620B are PA 5548 and either PA 5530 or PA 5575 (or equivalent graduate level courses), and consent of the instructor.

3-6 hrs[back to top](#)**PUB-ADM 5620 A Literature Of Public Affairs And Administration: Political Science****3-6 hrs**[back to top](#)**PUB-ADM 5620 B Literature Of Public Affairs And Administration:Organizational Theory & Behavior****3-6 hrs**[back to top](#)**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.

1-12 hrs[back to top](#)**PUB-ADM 5899 Required Graduate Enrollment****1 hr**[back to top](#)**PUB-ADM 598 D Supervised Research: Public Management****1-6 hrs**[back to top](#)

PUB-ADM 598 Supervised Research: International Management**1-6 hrs**[back to top](#)**PUB-ADM 598 F Supervised Research: Public Financial Administration****1-6 hrs**[back to top](#)

Law School

Law School Courses Law

LAW 761 M 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.

2-3 hrs[back to top](#)**LAW 8764 Administrative Law**

Introduction to the administrative process; role, function, and processes of administrative agencies; policy issues of administrative government; judicial review.

1-3 hrs[back to top](#)**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.

1-3 hrs[back to top](#)**LAW 8643 L 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.

1 hr[back to top](#)

LAW 8643 T 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.

1 hr

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LAW 8707 C 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.

2-3 hrs

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LAW 8707 A 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.

2-3 hrs

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LAW 8707 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.

1 hr

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LAW 8888 A 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.

1-2 hrs

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LAW 8732 Alternative 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.

2-3 hrs

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LAW 8665 A 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 systems'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 statutes (anti-cruelty, wills and trusts, hunting, racing and fighting statutes); (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).

2 hrs

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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.

2-3 hrs

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LAW 8747 Appellate Advocacy II

Preparation of memorandum (points relied on and summary of argument); presentation of two arguments before practicing attorneys. Ungraded.

1 hr

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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.

2 hrs

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LAW 8775 Appellate Advocacy IV

Participation on National Moot Court competition team. Ungraded.

1-2 hrs

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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.

1-3 hrs

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LAW 8636 A 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; voire dire; evidentiary foundations; opinion testimony; character and related evidence. The course will also involve the drafting of documents.

2-3 hrs

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LAW 8714 R 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.

2-3 hrs

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LAW 8714 R 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 implication 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 determinations 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 research and human cloning.

2-3 hrs

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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 draft 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.

2 hrs

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LAW 8815 B Biotechnology Law: Protecting & Commercializing Innovation

An introduction to the issues facing an attorney representing a client in the biotechnology industry, including an exploration of intellectual property issues as they play out in the context of biotechnology and a consideration of other legal, regulatory, finance and business issues that arise in the process of commercializing biotechnology innovation.

1 hr

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LAW 8746 B 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.

1 hr

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LAW 8783 B 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.

1 hr

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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 suits; dividends and stock redemptions; introduction to the Securities Act of 1933 and Securities Exchange Act of 1934.

4 hrs

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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.

2-3 hrs

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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).

2-3 hrs

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LAW 8713 C 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

1 hr

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LAW 8752 S 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.

2-3 hrs

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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).

2-3 hrs

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LAW 8738 R Chinese Law

A summer abroad program in Chinese law taught at the University of Peking, Peoples Republic of China by Chinese Professors. Subjects include such topics as: Cultural History and Political Systems of China, Organization of the Chinese Legal System, Chinese Contract Law, Civil Law, Trial Practice & Rules of Evidence, Criminal Law & Procedure, Family Law, Human Rights Issues, Business Organizations, Taxation, Intellectual Property Law, Banking and Finance, Real Estate Law, Investment Law & Practice in China, and Alternative Dispute Resolution.

4.5 hrs

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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.

3 hrs

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LAW 8522 Civil Procedure II

Court systems; personal jurisdiction and venue; federal jurisdiction; choice of law; preclusion; appellate procedure

2-3 hrs

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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.

2-3 hrs

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LAW 8721 Commercial Transactions

Law of negotiable instruments; bank collections; Articles 3 and 4 of the Uniform Commercial Code; electronic funds transfers.

3 hrs

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LAW 8743 L 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.

1 hr

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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.

2-3 hrs

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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.

2-3 hrs

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LAW 8631 Constitutional Law I - The Supreme Court And The Bill Of Rights

The origin and nature of judicial review, substantive due process in regard to regulation of economic affairs, retroactive legislation, inviolability of the person, freedom of expression and assembly, freedom of religion, equal protection of the laws, the electoral process, nationality and citizenship.

3 hrs

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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.

2-3 hrs

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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.

2 hrs

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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.

2 hrs

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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.

2-3 hrs

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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.

3 hrs

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LAW 8502 Contracts II

Continuation of LAW 8501.

3 hrs

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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).

2-3 hrs

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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.

2-3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

2-3 hrs

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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.

2 hrs

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LAW 8716 Cyberlaw And The Infosphere

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.

2-3 hrs

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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.

1-2 hrs

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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.

2-3 hrs

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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.

2-3 hrs

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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.

2-3 hrs

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LAW 8768 R Department Of Labor Clinic

Students work with the solicitor's Office of the United States Department of Labor assisting attorneys enforcing federal labor statutes, including the Fair Labor Standards Act, OSHA, ERISA, and the Davis-Bacon Act. Under the supervision of the Deputy Regional Solicitor, students perform legal research relating to enforcement actions, draft discovery requests review documents, participate in client and staff conferences, and assist in the investigation of violations. Clinic participants maintain a log of their activities and have bi-weekly conferences with the faculty supervisor to review and evaluate their clinic experiences and research work product.

2-3 hrs

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LAW 8815 R Disabilities And The Law

An interdisciplinary study of the law relating to disabled persons in the areas of employment, education, and access to transportation, health, welfare and social services to provide an understanding of how the law affects individuals with disabilities and public and private entities. Legislation considered include the American with Disabilities Act, Section 504 of the Rehabilitation Act of 1973, the individuals with Disabilities Education Act, the Family and Medical leave Act, the Fair Housing Act, the Voting Accessibility for the Elderly and Handicapped Act, and the Title VII of the Civil Rights Act of 1964. The enrollment of graduate students from other disciplines, such as education, business, and health sciences is encouraged to allow for interdisciplinary discussion of the topics involved.

2-3 hrs

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LAW 8601 R Doing Business In Ireland

A comparative study of the business entity laws of the United States and the Republic of Ireland. In addition, the course will examine the competition laws of the United States and the European Union and corporate taxation of multinational companies operating in the Republic of Ireland.

1-5 hrs

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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.

2-3 hrs

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LAW 8870 R 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.

2-3 hrs

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LAW 8733 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.

2-3 hrs

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LAW 8617 R 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.

1 hr

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LAW 8813 Employment Discrimination Law

Substantive and procedural aspects of Equal Employment Opportunity Act and related matters.

2 hrs

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LAW 8814 R Employment Law

Survey of legal doctrines regulating the employment relationship, including the regulation of wages, hours and benefits; privacy in the workplace; workers' compensation; suits for unjust dismissal; drug and polygraph testing; and sexual harassment. May be offered as a seminar.

2-3 hrs

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LAW 8890 R 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.

2-3 hrs

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LAW 8757 R 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.

2-3 hrs

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LAW 8638 R 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.

2-3 hrs

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LAW 8757 N 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.

3 hrs

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LAW 8773 T 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

2-3 hrs

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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.

2-3 hrs

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LAW 8773 R 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.

2-3 hrs

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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.

3-4 hrs

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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.

3-4 hrs

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LAW 8615 R 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.

1 hr

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LAW 8614 R 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

1 hr

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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.

3-4 hrs

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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-requisite: Professional Responsibility. Pre or co-requisites: Estates and Trust and Family Law. Limited Enrollment.

1-2 hrs

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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.

3 hrs

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LAW 8662 F 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.

2-3 hrs

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LAW 8751 Family Law

Pre-marital contracts; marriage; annulment; paternity; parent and child; divorce; alimony; division of property; separation agreements; adoption.

2-3 hrs

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LAW 8751 F 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.

1 hr

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LAW 8752 R 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.

2 hrs

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LAW 8751 S 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.

2-3 hrs

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LAW 8757 F Franchising Law

A consideration of the origins of franchising, compliance standards, franchise relationships, dispute resolution mechanisms and enforceability problems, including State and federal disclosure requirements applicable to the offer of franchises; State laws governing relationship issues between franchisor and franchisee; a review of forms of franchise agreement; and the negotiation of effect and enforceability of standard provisions. The course will emphasize, among other things, the claims of both franchisor and franchisee regarding issues typically litigated under franchise agreements, including rights to terminate the agreements, and available remedies for breach or wrongful termination.

2-3 hrs

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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.

2-3 hrs

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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.

2 hrs

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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.

2-3 hrs

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LAW 8656 F 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.

2-3 hrs

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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.

2-3 hrs

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LAW 8552 Federal Taxation

Theory, history, and principles of federal income taxation; basic concepts of income, classification of income and deductions.

3 hrs

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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.

2-3 hrs

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LAW 8764 D 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.

2-3 hrs

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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.

2-3 hrs

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LAW 8714 G 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.

1 hr

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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.

1-3 hrs

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LAW 8752 G 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.

1-2 hrs

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LAW 8743 Humanity, Emotion & the Law

A consideration of how human emotions (including pride, loyalty, stubbornness, anger, passion, ethno-centrism, irrationality, compassion, jealousy and love) influence the creation of rules of law, responses to those rules and how they are perceived, handled, adjudicated and enforced.

1 hr

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LAW 531 I 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

1-3 hrs

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LAW 8738 V 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.

1 hr

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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.

2-3 hrs

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LAW 8738 P 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.

2-3 hrs

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LAW 8746 R Independent Study

Independent study, including research and writing projects, under faculty supervision.

0.5-3 hrs

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LAW 8713 P 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.

4 hrs

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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.

2 hrs

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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.

2-3 hrs

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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.

2-3 hrs

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LAW 8831 R 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.

1-3 hrs

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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.

2-3 hrs

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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.

2-3 hrs

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LAW 8746 I Internship

3 hrs

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LAW 8532 F 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.

2-3 hrs

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LAW 8732 R 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.

1 hr

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LAW 8531 I 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.

1-3 hrs

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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.

3 hrs

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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.

2-3 hrs

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LAW 8730 I 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.

2-3 hrs

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LAW 8532 I 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 LL.M. Program for Chinese and Foreign Lawyers.

2-3 hrs

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LAW 8788 A 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.

1 hr

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LAW 8601 T 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.

1 hr

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LAW 8601 T 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.

1 hr

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LAW 8832 I 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.

1-3 hrs

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LAW 8532 F Introduction to Law and Lawyering Processes II-Family Law

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. Problems and exercises will be drawn from family and child law.

2-3 hrs

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LAW 8746 W 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.

1-2 hrs

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LAW 8656 P 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.

2-3 hrs

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LAW 8656 C 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.

2-3 hrs

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LAW 8656 C 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 Prosecutors 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.

2-3 hrs

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LAW 8895 S 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 from prominent, practicing lawyers are presented. The course is graded on a pass/fail basis.

1 hr

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LAW 8733 R 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.

2-3 hrs

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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.

2-3 hrs

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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.

2-3 hrs

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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.

2-3 hrs

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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.

3 hrs

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LAW 8735 R 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 block and Ireland as a gateway to the European Union for non-bloc nations.

1 hr

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LAW 8737 R 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.

2 hrs

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LAW 8745 Law Review

Editorial work in connection with the "UMKC Law Review." Open to students selected on basis of scholarship. Ungraded.

1-3 hrs

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LAW 8745 R 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.

1-5 hrs

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LAW 8704 Lawyering Skills

Interviewing and counseling; fact investigation; discovery; negotiation. Simulated videotaped exercises and drafting assignments. Prerequisites: Civil Procedure and Evidence.

2-3 hrs

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LAW 8815 S 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 with placed on vital leadership roles that facilitate community membership and contribution of persons with disabilities to society.

3-4 hrs

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LAW 8838 L 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; defferal concepts (inventory, depreciation, prepaid expenses), understanding accounting principles, valuation (present value, future value.).

1 hr

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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.

2-3 hrs

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LAW 8710 B 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.

2 hrs

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LAW 8800 Legal Research Thesis

Research for LL.M. thesis.

1-8 hrs

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LAW 8641 R 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.

2-3 hrs

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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.

2 hrs

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LAW 8656 A 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.

2 hrs

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LAW 8740 M 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)

2-3 hrs

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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.

2-3 hrs

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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.

2-3 hrs

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LAW 8888 R 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.

3 hrs

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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.

2-3 hrs

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LAW 8882 R 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.

2-3 hrs

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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.

2-3 hrs

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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.

2-3 hrs

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LAW 8815 Products Liability

Theory and practice in products liability cases; negligence; misrepresentation; strict liability; theories of product defect; applicability of the Uniform Commercial Code including warranties and disclaimers; actions among members of the distribution chain.

2-3 hrs

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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

2-3 hrs

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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.

2 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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LAW 8771 Public Finance

Fiscal, economic, and taxation problems and powers of local government in metropolitan areas; constitutional limitations; spending and public finance; property taxes; special assessments and exactions; interstate tax acts; local income taxes; debt financing; debt adjustment; public expenditures and contracts; financing education.

2-3 hrs

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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.

1-3 hrs

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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.

2-4 hrs

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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.

2-3 hrs

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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.

2-3 hrs

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LAW 8746 Research & Writing Requirement

Completion of a paper of publishable quality, demonstrating intensive research and analysis under faculty supervision.

2 hrs

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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.

3 hrs

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LAW 8758 S 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.

2-3 hrs

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LAW 8826 Seminar In Constitutional Interpretation

Current issues in constitutional law. Paper required. Prerequisites: Constitutional Law I.

2-3 hrs

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LAW 8735 Seminar In Famous Trials

Historical and jurisprudential issues involved in a number of "political trials."

2-3 hrs

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LAW 8897 Seminar In Legal Education

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.

1-2 hrs

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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.

2-3 hrs

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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.

2 hrs

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LAW 8792 S 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.

1-3 hrs

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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.

3 hrs

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LAW 8735 P 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.

1 hr

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LAW 8714 S 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.

1 hr

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LAW 8867 R 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.

2-3 hrs

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LAW 8757 L 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.

1-2 hrs

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LAW 8757 S Special Topics in Business Law Practice

Specialized course of study in the following areas relating to transactional practice: conducting research in special areas of business and tax law, with related exercises; application of ethical rules to issues commonly arising in business/tax practice fact patterns; overview of deferred compensation techniques with which business and tax lawyers should be at least generally familiar; selected issues in corporate finance and venture capital, with emphasis on advanced/hybrid financial instruments not covered in detail in the Business Organizations course; and negotiation skills training, including a lecture on negotiation rules, etc., and review and critique a tape of negotiators in action. Completion of this course will satisfy both the advanced research and ethics requirements of the Business & Entrepreneurial Law Emphasis.

1 hr

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LAW 8890 A 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.

2-3 hrs

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LAW 8890 B 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.

2-3 hrs

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LAW 8770 State And Local Government Law

Structure, powers, and divisions of local governments in metropolitan areas; role and powers of cities, counties, towns, school and special districts; decentralized and neighborhood governmental units and other local governmental units; legislative, home-rule, and constitutional sources of power; sovereign immunity; boundary adjustments; public employee relations; citizen participation; reapportionment; licensing and permits; ethics and public access to records; regional governance; intergovernmental cooperation; interstate compacts and authorities; function of local government with reference to solution of problems created by urban growth; role of judicial, administrative, and political processes.

2-3 hrs

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LAW 8848 R 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.

2-3 hrs

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LAW 8834 R 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.

2-4 hrs

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LAW 8838 R 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.

1-3 hrs

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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.

2 hrs

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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; unrealized business income tax issues.

2 hrs

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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.

2-3 hrs

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LAW 8892 R 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.

2-3 hrs

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LAW 8893 R 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.

2-3 hrs

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LAW 8895 The Jury: Practice And Perspectives

Examination of the American jury from both practical and theoretical perspectives; Constitutional issues relating to jury representativeness, use of peremptories, and alleged jury bias; jury selection techniques; juror information processing and the dynamics of jury deliberations; jury competence; jury size; juror misconduct; jury "nullification"; proposals for reform of the jury system.

2 hrs

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LAW 8740 C 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 aspects 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.

1 hr

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LAW 8885 H 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.

1 hr

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LAW 8511 Torts

Wrongs to the person and to property; legal remedies through which compensation or other relief may be obtained.

3 hrs

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LAW 8753 L 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).

2-3 hrs

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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.

2 hrs

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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

2 hrs

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LAW 8705 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.

2 hrs

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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.

2-3 hrs

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LAW 8637 R 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.

2-3 hrs

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LAW 8782 R 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.

2-3 hrs

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LAW 8782 S U.S. Environmental Protection Agency Clinic, Region VII

Students will be assigned to work at the EPA'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.

2-3 hrs

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LAW 8750 B 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. The 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.

1-5 hrs

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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.

1 hr

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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.

2-3 hrs

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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 and Criminal Procedure I.

2-3 hrs

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LAW 8778 Workshop On Current Issues In Family Law

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.

2 hrs

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LAW 8635 S 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)

2-3 hrs

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LAW 8635 T 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.

2-3 hrs

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School of Computing & Engineering

School of Computing & Engineering Courses

Civil Engineering

CIV-ENGR 5500 Problems

Supervised investigation in civil engineering to be presented in the form of a report. Prerequisite: Graduate standing.

1-6 hrs

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CIV-ENGR 5501 Advanced Topics In Civil Engineering

Current technical developments in civil engineering.

1-3 hrs

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CIV-ENGR 5501 G Advanced Topics In Civil Engineering

1-3 hrs

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CIV-ENGR 5501 J Advanced Topics In Civil Engineering

1-3 hrs

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CIV-ENGR 5501 L Advanced Topics In Civil Engineering

1-3 hrs

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CIV-ENGR 5501 S Advanced Topics In Civil Engineering

1-3 hrs

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CIV-ENGR 5525 Advanced Reinforced Concrete Design

Designed of eccentric and combine footings, retaining walls, two way floorslabs, design and analysis of multistory building frames, and introduction of prestressed concrete. Prerequisite: CIV-ENGR 422

3 hrs

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CIV-ENGR 5536 Advanced Soil Mechanics

Theoretical soil mechanics as applied to solution of specific engineering problems. Prerequisite: CIV-ENGR 335.

3 hrs

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CIV-ENGR 5544 Unit process Laboratory for Water and Wastewater Treatment

Typical chemical and physical relationships are applied to unit processes of water and wastewater. Troubleshooting for operation problems is emphasized. The class has significant laboratory/field component. Prerequisite: CIV-ENGR 342

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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CIV-ENGR 5555 Highway Hydraulics and Sediment Transport

The study of sediment transport in rivers, specifically in the vicinity of highway and railroad bridge encroachments. The understanding of the relationship between sediment transport and the fundamentals of fluvial geomorphology. Computation of sediment transport and sediment transport modeling. Prerequisite: CIV-ENGR 355

3 hrs

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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

3 hrs

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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

3 hrs

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CIV-ENGR 5599 Thesis Research

Independent investigation in the field of civil engineering to be presented in the form of a thesis.

1-6 hrs

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CIV-ENGR 5601 Doctoral Topics In Civil Engineering

Current technical developments in civil engineering.

1-3 hrs

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CIV-ENGR 5601 B Advanced Topics In Civil Engineering

1-3 hrs

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CIV-ENGR 5601 G Advanced Topics In Civil Engineering

1-3 hrs

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CIV-ENGR 5601 X Advanced Topics In Civil Engineering

1-3 hrs

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CIV-ENGR 5602 Directed Reading In Civil Engineering

Faculty supervised readings course. Prerequisite: Graduate standing. Offered: Fall and winter.

1-3 hrs

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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CIV-ENGR 5648 Environmental Engineering Practicum

Numerical water quality modeling of actual site data for wasteload allocation.

3 hrs

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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.

3 hrs

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CIV-ENGR 5651 Fundamentals Of Fluid Mechanics

Fundamentals of fluid motion, lecture and laboratory. Instrumentation, technique and analysis for experimental studies in fluid mechanics.

3 hrs

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CIV-ENGR 5656 Advanced Hydraulic Engineering

Rapidly varied flow and design of transition structures. Hydraulic design of spillways, reservoirs and related structures.

3 hrs

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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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

3 hrs

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CIV-ENGR 5699 Research And Dissertation

Doctoral dissertation research.

1-9 hrs

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Computer Science

COMP-SCI 524 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.

3 hrs

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COMP-SCI 532 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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COMP-SCI 5514 A 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

3 hrs

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COMP-SCI 5517 Digital Switching: Techniques And Architectures

Integration of transmission and switching, single and multistage switching principles, space and time division 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.

3 hrs

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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 421, COMP-SCI 431.

3 hrs

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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 520

3 hrs

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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 352, COMP-SCI 394R, COMP-SCI 421.

3 hrs

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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 520 and COMP-SCI S522.

3 hrs

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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 421 and COMP-SCI 494R.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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 352.

3 hrs

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COMP-SCI 5552 A 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): CS291 and CS 352.

3 hrs

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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.

3 hrs

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COMP-SCI 556 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.

3 hrs

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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

3 hrs

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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 352 and a course/background in Biology (Genomics or etaModels preferred.)

3 hrs

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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 352, COMP-SCI 394R and a course/background in Biology (Genomics or MetaModels preferred.)

3 hrs

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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, datawarehousing, 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.

3 hrs

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COMP-SCI 5572 Mobile Computing

This course covers in detail the architecture of mobile and wireless network. It discusses and develops relevant 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

3 hrs

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COMP-SCI 5590 Special Topics

Selected topics in specific areas of computer science. May be repeated for credit when the topic varies.

1-3 hrs

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COMP-SCI 5590 Special Topics

1-3 hrs

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COMP-SCI 5590 AC Special Topics

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COMP-SCI 5590 Special Topics

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COMP-SCI 5590 Special Topics

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COMP-SCI 5590 Special Topics

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COMP-SCI 5590 CA Special Topics

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COMP-SCI 5590 CD Special Topics

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COMP-SCI 5590 CI Special Topics

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COMP-SCI 5590 DA Special Topics

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COMP-SCI 5590 DM Special Topics

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COMP-SCI 5590 DS Special Topics

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COMP-SCI 5590 KB Special Topics

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COMP-SCI 5590 MB Special Topics

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COMP-SCI 5590 NA Special Topics

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COMP-SCI 5590 NM Special Topics

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COMP-SCI 5590 NN Special Topics

Selected topics in specific areas of computer science. May be repeated for credit when the topic varies.

1-3 hrs

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COMP-SCI 5590 O Special Topics

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COMP-SCI 5590 OP Special Topics

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COMP-SCI 5590 OS Special Topics

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COMP-SCI 5590 PC Special Topics In Computer Science

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COMP-SCI 5590 PR Special Topics

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COMP-SCI 5590 RS Special Topics In Computer Science

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COMP-SCI 5590 SK Special Topics Computer Science

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COMP-SCI 5590 Special Topics

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COMP-SCI 5590 WW Special Topics

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COMP-SCI 5590 Special Topics

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COMP-SCI 5590 XX Special Topics

1-3 hrs

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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 352.

3 hrs

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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.

3 hrs

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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 352 and COMP-SCI 494R, or Consent of Instructor.

3 hrs

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COMP-SCI 5596 A 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.

3 hrs

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COMP-SCI 5596 B 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.

3 hrs

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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.

1-3 hrs

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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.

1-3 hrs

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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.

1-6 hrs

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COMP-SCI 561 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.

3 hrs

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COMP-SCI 564 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.

3 hrs

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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.

3 hrs

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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.

1-3 hrs

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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.

3 hrs

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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.

1-3 hrs

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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.

1-3 hrs

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COMP-SCI 5699 A Research And Dissertation Research In Computer Science

Doctoral research in computer science.

1-12 hrs

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COMP-SCI 575 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.

3 hrs

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COMP-SCI 581 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.

3 hrs

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COMP-SCI 5899 Required Grad Enrollment

1 hr

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COMP-SCI 590 A Special Topics

3 hrs

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COMP-SCI 590 C Special Topics In Computer Science

1-3 hrs

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COMP-SCI 590 Special Topics

1-3 hrs

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COMP-SCI 590 F Special Topics

1-3 hrs

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COMP-SCI 590 I Special Topics

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COMP-SCI 590 M Special Topics

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COMP-SCI 590 T Special Topics

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COMP-SCI 590 V Special Topics

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COMP-SCI 590 W Special Topics

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COMP-SCI 590 Z Special Topics

1-3 hrs

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COMP-SCI 591 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.

3 hrs

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COMP-SCI 622 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.

3 hrs

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COMP-SCI 623 Network Simulation And Modeling

Simulation and modeling of network topologies and protocols, evaluation of the physical layer, data-link layer, network layer routing algorithms, local and long-haul networks. Prerequisite: CS 522 and 532.

3 hrs

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COMP-SCI 651 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.

3 hrs

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COMP-SCI 690 A Advanced Special Topics

1-3 hrs

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COMP-SCI 690 J Advanced Special Topics

1-3 hrs

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Electrical and Computer Engineering

E&C-ENGR 5501 AP Special Topics In Electrical Engineering

1-4 hrs

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E&C-ENGR 5501 NN Special Topics In Electrical Engineering

1-4 hrs

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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.

3 hrs

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E&C-ENGR 5516 Computer Networks

Concepts and goals of computer networking, structure of computer networks, OSI model and layers, network control, analysis, design and management, data communication techniques including fiber optics, WAN, MAN and LAN architecture and protocols, internetworking, case studies and hand-on studying the performance by analytic modeling and computer simulation. Prerequisite: E&C-ENGR 424 or instructor's consent.

3 hrs

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E&C-ENGR 5528 Digital Hardware Systems Design

Characteristics and parameters of various hardware subsystem including main memory, auxiliary memory, arithmetic units, card equipment, etc., and principles of organization into efficient system. Prerequisite: E&C-ENGR 428.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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E&C-ENGR 5590 Special Topics In Electrical And Computer Engineering

1-4 hrs

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E&C-ENGR 5590 AE Special Topics In Electrical And Computer Engineering

1-4 hrs

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E&C-ENGR 5590 AN Special Topics in Electrical and Computer Engineering

1-4 hrs

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E&C-ENGR 5590 AS Special Topics in Electrical and Computer Engineering

1-4 hrs

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E&C-ENGR 5590 PS Special Topics in Electrical and Computer Engineering

Special Topics in Electrical and Computer Engineering.

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E&C-ENGR 5590 T Special Topics In Electrical And Computer Engineering**1-4 hrs**[back to top](#)**E&C-ENGR 5590 Special Topics In Electrical And Computer Engineering****1-4 hrs**[back to top](#)**E&C-ENGR 5590 Special Topics In Electrical And Computer Engineering****1-4 hrs**[back to top](#)**E&C-ENGR 5590 WW Special Topics In Electrical And Computer Engineering****1-4 hrs**[back to top](#)**E&C-ENGR 5590 Special Topics****1-3 hrs**[back to top](#)**E&C-ENGR 5590 XX Special Topics In Electrical And Computer Engineering****1-4 hrs**[back to top](#)**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

1-3 hrs[back to top](#)**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

1-3 hrs[back to top](#)**E&C-ENGR 5599 Research**

Independent investigation in field of electrical engineering to be presented in the form of a thesis.

1-6 hrs[back to top](#)**E&C-ENGR 5600 Problems**

Supervised investigation in electrical engineering to be presented in form of report.

2-5 hrs[back to top](#)

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 500 is recommended.

3 hrs

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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 instructor's consent.

3 hrs

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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.

3 hrs

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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.

3 hrs

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E&C-ENGR 5619 Theory Of Automata

Sequential machines: Turing machines; deterministic and stochastic automata; applications of automata. Prerequisite: instructor's consent.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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E&C-ENGR 5661 Solid State Energy Conversion

Solid state direct energy conversion; and design of thermoelectric generators and heat pumps.

3 hrs

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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.

3 hrs

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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.

3 hrs

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E&C-ENGR 5668 Advanced Computer Methods In Power System Analysis

Power system matrices. Sparse matrix methods. Advanced load flow analysis techniques and concepts. Contingency analysis. State estimation. Prerequisites: E&C-ENGR 466K and strong background in FORTRAN or C.

3 hrs

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E&C-ENGR 5670 Direct Current Power Systems

Characteristic and performance analysis of DC transmission lines and associated conversion systems.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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E&C-ENGR 5681 Applications Of Transforms

Applications of Laplace and other transform methods of solution of circuit and field problems.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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E&C-ENGR 5690 Advanced Topics In Electrical And Computer Engineering

1-4 hrs

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E&C-ENGR 5690 EM Advanced Topics In Electrical And Computer Engineering

1-4 hrs

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E&C-ENGR 5690 ET Advanced Topics In Electrical And Computer Engineering

1-4 hrs

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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

1-5 hrs

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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

1-5 hrs

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E&C-ENGR 5699 Dissertation Research

Doctoral Dissertation

1-9 hrs

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Mechanical Engineering

MEC-ENGR 5500 Problems

Supervised investigation in mechanical engineering to be presented in the form of a report.

1-6 hrs

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MEC-ENGR 5501 Advanced Topics In Mechanical Engineering

3 hrs

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MEC-ENGR 5501 AC Advanced Topics In Mechanical Engineering

3 hrs

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MEC-ENGR 5501 Advanced Topics In Mechanical Engineering

3 hrs

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MEC-ENGR 5501 H Advanced Topics In Mechanical Engineering

3 hrs

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MEC-ENGR 5501 HP Advanced Topics In Mechanical Engineering

3 hrs

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MEC-ENGR 5501 J Advanced Topics In Mechanical Engineering

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MEC-ENGR 5501 L Advanced Topics In Mechanical Engineering

3 hrs

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MEC-ENGR 5501 M Advanced Topics In Mechanical Engineering

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MEC-ENGR 5501 N Advanced Topics In Mechanical Engineering

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MEC-ENGR 5501 P Advanced Topics In Mechanical Engineering

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MEC-ENGR 5501 PL Advanced Topics In Mechanical Engineering

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MEC-ENGR 5501 R Advanced Topics In Mechanical Engineering

3 hrs

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MEC-ENGR 5501 T Advanced Topics In Mechanical Engineering

1-3 hrs

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MEC-ENGR 5501 Z Advanced Topics In Mechanical Engineering

3 hrs

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MEC-ENGR 5504 Advanced Metallurgy Principles

Advanced treatment of physical metallurgy principles to provide a theoretical understanding of engineering materials. Prerequisite: MEC-ENGR 324.

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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MEC-ENGR 5535 Heat Transfer-Conduction

Techniques for determining temperature distribution and temperature history within solids. Prerequisite: MEC-ENGR 399.

3 hrs

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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

3 hrs

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MEC-ENGR 5545 Instrumentation Theory

Applied theory of dynamical and energizing systems for analyzing, computing, control devices. Prerequisite: MEC-ENGR 362

3 hrs

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MEC-ENGR 5558 Dynamical Theory

Engineering principles and application in mathematical expression of energy, force, inertia system. Prerequisite: MEC-ENGR 485 and MATH 345.

3 hrs

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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.

3 hrs

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MEC-ENGR 5599 Research

Independent investigation in field of mechanical engineering to be presented as a thesis.

1-99 hrs

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MEC-ENGR 5601 Doctoral Topics In Mechanical Engineering

3 hrs

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MEC-ENGR 5601 A Doctoral Topics In Mechanical Engineering

3 hrs

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MEC-ENGR 5601 AC Doctoral Topics In Mechanical Engineering

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MEC-ENGR 5601 C Doctoral Topics In Mechanical Engineering

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MEC-ENGR 5601 Doctoral Topics in Mechanical Engineering

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MEC-ENGR 5601 F Doctoral Topics in Mechanical Engineering

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MEC-ENGR 5601 G Doctoral Topics In Mechanical Engineering

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MEC-ENGR 5601 H Doctoral Topics In Mechanical Engineering**3 hrs**[back to top](#)**MEC-ENGR 5601 J Doctoral Topics in Mechanical Engineering****3 hrs**[back to top](#)**MEC-ENGR 5601 R Doctoral Topics In Mechanical Engineering****3 hrs**[back to top](#)**MEC-ENGR 5601 S Doctoral Topics In Mechanical Engineering****3 hrs**[back to top](#)**MEC-ENGR 5601 SA Doctoral Topics In Mechanical Engineering****3 hrs**[back to top](#)**MEC-ENGR 5603 Directed Readings In Mechanical Engineering**

Faculty supervised readings course. Prerequisite: Graduate Standing

1-3 hrs[back to top](#)**MEC-ENGR 5610 Seminar**

Review recent investigations, projects of major importance in mechanical engineering.

1 hr[back to top](#)**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

3 hrs[back to top](#)**MEC-ENGR 5618 Advanced Dynamics**

Fundamental principles of advanced rigid body dynamics with applications. Special mathematical techniques including Lagrangian and Hamiltonian methods.

3 hrs[back to top](#)**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

3 hrs[back to top](#)

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

3 hrs

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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

3 hrs

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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

3 hrs

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MEC-ENGR 5627 Dynamics Of Machinery

Dynamic balancing of 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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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MEC-ENGR 5637 Heat Transfer-Radiation

Advanced study of engineering radiation heat transfer. Concepts of electromagnetic theory. Development of thermal radiation laws from thermodynamic laws. Analysis of grey and non-grey systems with intervening gases. Study of recent literature. Prerequisites: MEC-ENGR 399.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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MEC-ENGR 5660 Combustion

Study of advanced topics in flames and combustion. Detonation and deflagrations, supersonic combustion, air pollution. Prerequisite: MEC-ENGR 441.

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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MEC-ENGR 5699 Research And Dissertation

Doctoral dissertation research.

1-9 hrs

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Conservatory of Music & Dance

Conservatory of Music & Dance Courses Bassoon

BASSOON 5500 A Graduate Bassoon-Secondary

2 hrs

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BASSOON 5500 B 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.

2 hrs

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BASSOON 5500 C 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.

1 hr

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BASSOON 5501 Graduate Bassoon - Masters Performance

4 hrs

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BASSOON 5601 Graduate Bassoon - Doctoral Performance

4 hrs

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Cello

CELLO 5500 A Graduate Cello - Secondary

2 hrs

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CELLO 5500 B 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.

2 hrs

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CELLO 5500 C 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.

1 hr

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CELLO 5501 Graduate Cello - Masters Performance

4 hrs

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CELLO 5601 Graduate Cello - Doctoral Performance

4 hrs

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Clarinet

CLARINET 5500 A Graduate Clarinet-Secondary

2 hrs

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CLARINET 5500 B Special Applied Studies

One-hour lesson weekly. This courses 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.

2 hrs

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CLARINET 5500 C 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.

1 hr

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CLARINET 5500 JC 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

1 hr

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CLARINET 5501 Graduate Clarinet - Masters Performance

4 hrs

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CLARINET 5601 Graduate Clarinet - Doctoral Performance

4 hrs

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Conservatory of Music

CONSVTY 5517 Advanced Opera Workshop

2 hrs

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CONSVTY 5523 Analytical Procedures

An introduction to recent methods of stylistic and formal analysis including twelve-tone, Schenkerian and set theoretic approaches.

3 hrs

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CONSVTY 5524 B 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.

3 hrs

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CONSVTY 5524 C 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.

3 hrs

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CONSVTY 5526 A 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.

3 hrs

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CONSVTY 5526 B Schenkerian Analysis

Continuation of 5526A emphasizing the acquisition of advanced skills in Schenkerian analysis. Prerequisite: CONSVTY 5526A and consent of the instructor.

3 hrs

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CONSVTY 5527 Advanced Counterpoint

Analysis and writing in 18th century style and forms including canon, invention and fugue.

3 hrs

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CONSVTY 5528 Contemporary Harmonic/Contrapuntal Styles

Analysis and writing in contemporary styles. Prerequisite: CONSVTY 428 or consent of the instructor.

3 hrs

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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

3 hrs

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CONSVTY 5531 Advanced Orchestration

A study of the scoring techniques of such composers as Debussy, Ravel, Schoenberg, Bartok, and Stravinsky, and the application of these techniques by the student in scoring works for small and large ensembles. In the case of the composition major, detailed work in orchestrating original compositions will be required. Prerequisite: CONSVTY 431 or consent of the instructor. May be repeated for credit.

3 hrs

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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.

3 hrs

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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.

3 hrs

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CONSVTY 5534 B 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.

3 hrs

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CONSVTY 5534 C 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

3 hrs

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CONSVTY 5540 A Seminar In Adv Music Education Methods For Elementary 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.

2 hrs

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CONSVTY 5540 B 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.

2 hrs

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CONSVTY 5540 C 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.

2 hrs

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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

3 hrs

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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.

2 hrs

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CONSVTY 5545 Seminar In Music Therapy

Discussion of current trends in music therapy.

2 hrs

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CONSVTY 5547 History Of Opera I

A survey of opera from its origins to 1800. Prerequisite: Consent of the instructor.

3 hrs

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CONSVTY 5551 History Of The Oratorio

A study of the oratorio from its beginning through contemporary works.

3 hrs

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CONSVTY 5554 Music Of The Medieval Era

Seminar in the music of the Middle Ages, from 800 to 1400. Prerequisite: CONSVTY 5593

3 hrs

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CONSVTY 5555 Music Of The Renaissance

Seminar in the music of the Renaissance, from 1400 to 1600.

3 hrs

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CONSVTY 5556 Music Of The Baroque Era

Seminar in the music of the Baroque era, from 1600 to 1750. Prerequisite: CONSVTY 5593

3 hrs

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CONSVTY 5557 Music Of The Classical Era

Seminar in the music of the Classical era, from 1750 to 1828. Prerequisite: CONSVTY 5593.

3 hrs

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CONSVTY 5558 Music Of The Romantic Era

Seminar in the music of the Romantic era from 1828 to 1914. Prerequisite: CONSVTY 5593.

3 hrs

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CONSVTY 5559 A Music Since 1900: 1900-1945

Seminar in music from 1900 to 1945. Prerequisite: CONSVTY 5593

3 hrs

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CONSVTY 5559 B Music Since 1900: 1945 To The Present

Seminar in music since 1945. Prerequisite: CONSVTY 5593

3 hrs

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CONSVTY 5560 A Seminar: History Of Russian Vocal Music**3 hrs**[back to top](#)**CONSVTY 5560 B Seminar: Nineteenth-Century Nationalism In Music****3 hrs**[back to top](#)**CONSVTY 5560 C Seminar: History Of American Music****3 hrs**[back to top](#)**CONSVTY 5561 Advanced Music Literature**

Survey of the literature of the appropriate instrument. May be repeated for credit. Prerequisite: Consent of the instructor.

1-3 hrs[back to top](#)**CONSVTY 5566 A Advanced Vocal Literature: French Melodies**

In-depth study of the French melodies of Duparc, Faure, Debussy, Ravel, and Poulenc.

2 hrs[back to top](#)**CONSVTY 5566 B Advanced Vocal Literature: German Lieder**

In-depth study of the German lieder of Schubert, Schumann, Brahms, Wolf, Mahler, and Strauss.

2 hrs[back to top](#)**CONSVTY 5566 C Advanced Vocal Literature: Nationalistic Art Songs**

In-depth study of Nationalistic art songs of Russia, Scandinavia, Spain, and Middle Europe.

2 hrs[back to top](#)**CONSVTY 5566 D Advanced Vocal Literature: 20Th Century Amer & Engl Art Songs**

In-depth study of the 20th Century American and English art songs.

2 hrs[back to top](#)**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.

3 hrs[back to top](#)**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.

3 hrs[back to top](#)

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.

2 hrs

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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

2 hrs

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CONSVTY 5582 A 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.

2 hrs

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CONSVTY 5582 B 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.

2 hrs

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CONSVTY 5582 C 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.

2 hrs

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CONSVTY 5583 A 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.

2 hrs

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CONSVTY 5583 B 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.

2 hrs

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CONSVTY 5583 C 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.

2 hrs

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CONSVTY 5586 A 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.

2 hrs

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CONSVTY 5586 B 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.

2 hrs

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CONSVTY 5587 A Seminar In Choral Literature-Middle Ages & Renaissance

Each seminar is concerned with the conductor's viewpoint of a segment of the literature from the specified historical periods and deals with analysis, interpretation, vocal problems, conducting problems, etc., of that literature. Prerequisite: Consent of the instructor.

2 hrs

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CONSVTY 5587 B Seminar In Choral Literature-Baroque And Classical

Each seminar is concerned with the conductor's viewpoint of a segment of the literature from the specified historical periods and deals with analysis, interpretation, vocal problems, conducting problems, etc., of that literature. Prerequisite: Consent of the instructor.

2 hrs

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CONSVTY 5587 C Seminar In Choral Literature-Twentieth Century

Each seminar is concerned with the conductor's viewpoint of a segment of the literature from the specified historical periods and deals with analysis, interpretation, vocal problems, conducting problems, etc., of that literature. PREREQUISITE: Consent of the instructor.

2 hrs

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CONSVTY 5587 D Seminar In Choral Literature-Large Forms Orchestral Accomp

Each seminar is concerned with the conductor's viewpoint of a segment of the literature from the specified historical periods and deals with analysis, interpretation, vocal problems, conducting problems, etc., of that literature. Prerequisite: Consent of the instructor.

2 hrs

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CONSVTY 5587 Seminar In Choral Literature - Sacred

Each seminar is concerned with the conductor's viewpoint of a segment of the literature from the specified historical periods and deals with analysis, interpretation, vocal problems, conducting problems, etc., of that literature. Prerequisite: Consent of the instructor.

2 hrs

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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.

1 hr

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CONSVTY 5589 A Academic Portfolio II

Additional coursework or clinical experience resulting in original products. Open only to students concurrently enrolled in CONSVTY 5589.

1 hr

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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.

1-3 hrs

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CONSVTY 5590 AD Special Topics

1-3 hrs

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CONSVTY 5590 BJ Special Topics

1-3 hrs

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CONSVTY 5590 CA Special Topics

1-3 hrs

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CONSVTY 5590 CE Special Topics

1-3 hrs

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CONSVTY 5590 CL Special Topics

1-3 hrs

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CONSVTY 5590 CT Special Topics

1-3 hrs

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CONSVTY 5590 HA Special Topics

1-3 hrs

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CONSVTY 5590 HG Special Topics

1-3 hrs

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CONSVTY 5590 HS Special Topics

1-3 hrs

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CONSVTY 5590 IN Special Topics

1-3 hrs

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CONSVTY 5590 MB Special Topics

1-3 hrs

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CONSVTY 5590 OL Special Topics

1-3 hrs

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CONSVTY 5590 PC Special Topics

1-3 hrs

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CONSVTY 5590 PO Special Topics

1-3 hrs

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CONSVTY 5590 PP Special Topics

1-3 hrs

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CONSVTY 5590 PS Special Topics

1-3 hrs

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CONSVTY 5590 SV Special Topics

1-3 hrs

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CONSVTY 5591 C Advanced Pedagogy I - Organ

2 hrs

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CONSVTY 5591 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.

3 hrs

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CONSVTY 5591 G Pedagogy Of Music Theory I

Study of teaching techniques and materials combined with supervised teaching. Prerequisite: Consent of the instructor.

3 hrs

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CONSVTY 5591 H Advanced Pedagogy I - Voice

2 hrs

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CONSVTY 5591 J 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

2 hrs

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CONSVTY 5591 K 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

3 hrs

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CONSVTY 5592 C Advanced Pedagogy II - Organ

2 hrs

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CONSVTY 5592 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.

3 hrs

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CONSVTY 5592 H Advanced Pedagogy II - Voice

2 hrs

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CONSVTY 5593 Introduction To Research And Bibliography In Music

A survey of procedure in bibliography, research, and scholarly writing.

3 hrs

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CONSVTY 5594 A 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.

3 hrs

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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

3 hrs

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CONSVTY 5597 Master's Recital

For voice students, a one hour weekly participation in Vocal Performance Seminar is required.

4 hrs

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CONSVTY 5597 A Master's Conducting Performance

4 hrs

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CONSVTY 5597 B Master's Recital II

4 hrs

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CONSVTY 5597 CE Master's Recital

4 hrs

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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.

2 hrs

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CONSVTY 5598 B 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.

1-3 hrs

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CONSVTY 5599 Thesis

1-9 hrs

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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.

3 hrs

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CONSVTY 5621 History Of Music Theory II

A study of theoretical treatises, in the original languages and in translation, from the 18th-20th Centuries.

3 hrs

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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.

3 hrs

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CONSVTY 5693 Advanced Research And Bibliography In Music

Advanced procedures in bibliography, research, and scholarly writing. Prerequisite: CONSVTY 5593 Offered: Every other Winter

3 hrs

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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.

3-6 hrs

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CONSVTY 5697 Doctoral Recital

For voice students, a one hour weekly participation in Vocal Performance Seminar is required.

4 hrs

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CONSVTY 5697 A Doctoral Lecture Recital

4 hrs

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CONSVTY 5697 B Doctoral Conducting Performance

4 hrs

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CONSVTY 5697 BP 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.

1 hr

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CONSVTY 5697 C Doctoral Recital II**1-4 hrs**[back to top](#)**CONSVTY 5697 CP 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.

1 hr[back to top](#)**CONSVTY 5697 D Doctoral Conducting Performance II****1-4 hrs**[back to top](#)**CONSVTY 5697 DP 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.

1 hr[back to top](#)**CONSVTY 5697 P 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.

1 hr[back to top](#)**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.

2 hrs[back to top](#)**CONSVTY 5698 A 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.

2 hrs[back to top](#)**CONSVTY 5698 B 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.

1-4 hrs[back to top](#)**CONSVTY 5699 Dissertation Research****1-16 hrs**[back to top](#)

CONSVTY 5699 A Dissertation Research**1-16 hrs**[back to top](#)**CONSVTY 5899 Required Graduate Enrollment****1 hr**[back to top](#)**CONSVTY H5593 Introduction To Research And Bibliography In Music**

A survey of procedure in bibliography, research, and scholarly writing.

3 hrs[back to top](#)

Euphonium

EUPHNM 5500 A Graduate Euphonium-Secondary**2 hrs**[back to top](#)**EUPHNM 5500 B 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.

2 hrs[back to top](#)**EUPHNM 5500 C 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.

1 hr[back to top](#)**EUPHNM 5501 Graduate Euphonium - Master's Performance****4 hrs**[back to top](#)**EUPHNM 5601 Graduate Euphonium - Doctoral Performance****4 hrs**[back to top](#)

Flute

FLUTE 5500 A Graduate Flute-Secondary**2 hrs**[back to top](#)**FLUTE 5500 B 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.

2 hrs[back to top](#)

FLUTE 5500 C 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.

1 hr

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FLUTE 5500 JC 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

1 hr

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FLUTE 5501 Graduate Flute - Masters Performance

4 hrs

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FLUTE 5601 Graduate Flute - Doctoral Performance

4 hrs

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Guitar

GUITAR 5500 A Graduate Guitar-Secondary

2 hrs

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GUITAR 5500 B 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.

2 hrs

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GUITAR 5500 C 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.

1 hr

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GUITAR 5500 JA 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

2 hrs

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GUITAR 5500 JB 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

2 hrs

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GUITAR 5500 JC 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

1 hr

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GUITAR 5501 Graduate Guitar - Masters Performance

4 hrs

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GUITAR 5601 Graduate Guitar - Doctoral Performance

4 hrs

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Harp

HARP 5501 Graduate Harp - Masters Performance

2-4 hrs

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HARP 5601 Graduate Harp - Doctoral Performance

2-4 hrs

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Harpsichord

HRPCHD 5500 A Graduate Harpsichord-Secondary

2 hrs

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HRPCHD 5500 B 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.

2 hrs

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HRPCHD 5500 C 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.

1 hr

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Horn

HORN 5500 A Graduate Horn-Secondary

2 hrs

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HORN 5500 B 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.

2 hrs

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HORN 5500 C 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.

1 hr

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HORN 5501 Graduate French Horn - Masters Performance

4 hrs

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HORN 5601 Graduate Horn - Doctoral Performance

4 hrs

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Oboe

OBOE 5500 A Graduate Oboe-Secondary

2 hrs

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OBOE 5500 B 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.

2 hrs

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OBOE 5500 C 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.

1 hr

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OBOE 5501 Graduate Oboe-Master Performance

4 hrs

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OBOE 5601 Graduate Oboe - Doctoral Performance

4 hrs

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Organ

ORGAN 5500 A Graduate Organ-Secondary

2 hrs

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ORGAN 5500 B 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.

2 hrs

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ORGAN 5500 C 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.

1 hr

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ORGAN 5501 Graduate Organ - Masters Performance

4 hrs

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ORGAN 5601 Graduate Organ - Doctoral Performance

4 hrs

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Percussion

PERCSN 5500 A Graduate Percussion-Secondary

2 hrs

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PERCSN 5500 B 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.

2 hrs

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PERCSN 5500 C 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.

1 hr

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PERCSN 5500 JA 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

2 hrs

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PERCSN 5500 JB 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

2 hrs

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PERCSN 5500 JC 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

1 hr

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PERCSN 5501 Graduate Percussion - Masters Performance

4 hrs

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PERCSN 5601 Graduate Percussion - Doctoral Performance

4 hrs

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Piano

PIANO 5500 A Graduate Piano-Secondary

2 hrs

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PIANO 5500 B 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.

2 hrs

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PIANO 5500 C 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.

1 hr

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PIANO 5500 JA 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

2 hrs

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PIANO 5500 JB 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

2 hrs

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PIANO 5500 JC 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

1 hr

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PIANO 5501 Graduate Piano - Masters Performance

4 hrs

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PIANO 5601 Graduate Piano - Doctoral Performance

4 hrs

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Saxophone

SAXOPH 5500 A Graduate Saxophone-Secondary

2 hrs

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SAXOPH 5500 B 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.

2 hrs

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SAXOPH 5500 C 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.

1 hr

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SAXOPH 5500 JA 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

2 hrs

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SAXOPH 5500 JB 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

2 hrs

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SAXOPH 5500 JC 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

1 hr

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SAXOPH 5501 Graduate Saxophone - Masters Performance**4 hrs**[back to top](#)**SAXOPH 5601 Graduate Saxophone - Doctoral Performance****4 hrs**[back to top](#)

String Bass

STR-BASS 5500 A Graduate String Bass-Secondary**2 hrs**[back to top](#)**STR-BASS 5500 B 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.

2 hrs[back to top](#)**STR-BASS 5500 C 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.

1 hr[back to top](#)**STR-BASS 5500 JA 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

2 hrs[back to top](#)**STR-BASS 5500 JB 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

2 hrs[back to top](#)**STR-BASS 5500 JC 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

1 hr[back to top](#)**STR-BASS 5501 Graduate String Bass - Masters Performance****4 hrs**[back to top](#)

STR-BASS 5601 Graduate String Bass - Doctoral Performance**4 hrs**[back to top](#)

Trombone

TROMB 5500 A Graduate Trombone-Secondary**2 hrs**[back to top](#)**TROMB 5500 B 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.

2 hrs[back to top](#)**TROMB 5500 C 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.

1 hr[back to top](#)**TROMB 5500 JA 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

2 hrs[back to top](#)**TROMB 5500 JB 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

2 hrs[back to top](#)**TROMB 5500 JC 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

1 hr[back to top](#)**TROMB 5501 Graduate Trombone - Masters Performance****4 hrs**[back to top](#)**TROMB 5601 Graduate Trombone - Doctoral Performance****4 hrs**[back to top](#)

Trumpet

TRUMPET 5500 A Graduate Trumpet-Secondary

2 hrs

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TRUMPET 5500 B 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.

2 hrs

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TRUMPET 5500 C 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.

1 hr

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TRUMPET 5500 JA 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

2 hrs

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TRUMPET 5500 JB 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

2 hrs

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TRUMPET 5500 JC 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

1 hr

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TRUMPET 5501 Graduate Trumpet - Masters Performance

4 hrs

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TRUMPET 5601 Graduate Trumpet - Doctoral Performance

4 hrs

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Tuba

TUBA 5500 A Graduate Tuba-Secondary

2 hrs

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TUBA 5500 B 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.

2 hrs

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TUBA 5500 C 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.

1 hr

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TUBA 5501 Graduate Tuba - Masters Performance

4 hrs

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TUBA 5601 Graduate Tuba - Doctoral Performance

4 hrs

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Viola

VIOLA 5500 A Graduate Viola-Secondary

2 hrs

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VIOLA 5500 B 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.

2 hrs

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VIOLA 5500 C 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.

1 hr

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VIOLA 5501 Graduate Viola - Masters Performance

4 hrs

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VIOLA 5601 Graduate Viola - Doctoral Performance

4 hrs

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Violin

VIOLIN 5500 A Graduate Violin-Secondary

2 hrs

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VIOLIN 5500 B 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.

2 hrs

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VIOLIN 5500 C 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.

1 hr

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VIOLIN 5501 Graduate Violin - Masters Performance

4 hrs

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VIOLIN 5601 Graduate Violin - Doctoral Performance

4 hrs

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Voice

VOICE 5500 A Graduate Voice-Secondary

2 hrs

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VOICE 5500 B 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.

2 hrs

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VOICE 5500 C 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.

1 hr

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VOICE 5501 Graduate Voice - Masters Performance

One hour weekly participation in Vocal Performance Seminar is required

4 hrs

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VOICE 5601 Graduate Voice - Doctoral Performance

One hour weekly participation in Vocal Performance is required.

4 hrs

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School of Dentistry

School of Dentistry Courses Dental Hygiene

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.

3 hrs

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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

2-4 hrs

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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

2-4 hrs

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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.

3 hrs

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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

2-4 hrs

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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.

2-4 hrs

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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

2-4 hrs

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DENT-HYG 5553 Seminar In Advanced Clinical Techniques And Methodologies

This course will expand on the student's basic knowledge of the dental hygiene process of care. Current scientific literature related to topics in dental hygiene and oral health will be examined to enhance background knowledge related to the dental hygiene process of care and foster an attitude of life-long learning. Offered: Winter Semester on-line only.

2-4 hrs

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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

2-4 hrs

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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 oral complications associated with all cancer therapies. Cancer prevention issues and the psychosocial and economic impact of cancer diagnosis will also be discussed. Offered: TBA

1-4 hrs

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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

1-4 hrs

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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

1-4 hrs

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DENT-HYG 5580 Special Topics In Dental Hygiene-Expanded Duties

Theoretical and clinical experience in expanded duties for the dental hygienist in the areas of local anesthesia and restorative dentistry. Offered: TBA

3 hrs

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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

1-4 hrs

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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

1-2 hrs

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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.

1-6 hrs

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Dentistry- Biological Sciences

BIO-SCI 3210 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.

2 hrs

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BIO-SCI 5700 Biomaterials Teaching

Through this course, students will acquire teaching experience in graduate and undergraduate biomaterials.

2 hrs

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BIO-SCI 5701 Engineering Principles Of Dental Materials

The application of engineering principles to a description and understanding of the structure and properties of dental materials. Identification of engineering principles which are appropriate in the examination of the function of dental materials. Basic information, as well as current materials research will be discussed.

2 hrs

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BIO-SCI 5704 Temporomandibular Disorders: Evaluation And Management

Lecture and seminar course on the temporomandibular disorders, evaluation and management in light of behavioral, biological and environmental factors.

2 hrs

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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.

1 hr

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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.

1-2 hrs

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BIO-SCI 5710 Molecular 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.

2 hrs

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BIO-SCI 5711 Biochemical Endocrinology

An advanced study of the chemistry, metabolism, and mechanisms of hormone actions on molecular processes. Each hormone will be studied with respect to its site of origin, chemical properties, metabolism, disease entities, and mechanism of action on molecular processes. Prerequisite: BISC 5710. 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. Prerequisite(s): LS-BIOC 5710.

2 hrs

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BIO-SCI 5730 Oral Microbiology

The course will focus on rapidly developing areas of oral microbiology especially the etiology, prevention and treatment of oral disease. Topics will be selected by the instructor to reflect recent advances in research and to provide a critical examination of the current literature. Two hours lecture per week. 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.

2 hrs

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BIO-SCI 5735 Advanced Immunology

This seminar course will focus on rapidly developing areas of modern immunology relevant to the health professions. Topics will be selected by the instructor to reflect recent advances in immunology and provide a critical examination of the current literature. Two hours lecture per week. 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.

2 hrs

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BIO-SCI 5739 Dental 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.

1 hr

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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.

2 hrs

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BIO-SCI 5741 Oral Pathology II

A continuation of BIO-SCI 5740.

2 hrs

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BIO-SCI 5742 Dental 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.

2 hrs

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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.

1-2 hrs

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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 gonemeter. Prerequisite: Permission of instructor.

2-4 hrs

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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.

1-2 hrs

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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.

2-4 hrs

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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.

1 hr

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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- I.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.

1-5 hrs

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BIO-SCI 5759 Special Problems In Pharmacology

Pharmacologic and therapeutic problems of special interest in the practice of dentistry.

2 hrs

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BIO-SCI 5760 Physiology Of Oral Hard 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.

2 hrs

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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.

1-2 hrs

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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.

1-2 hrs

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BIO-SCI 5782 Clinical Student Teaching II

A continuation of BIO-SCI 5781.

1-2 hrs

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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.

1-6 hrs

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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.

1-9 hrs

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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.

1-3 hrs

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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.

2 hrs

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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.

2-3 hrs

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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.

3 hrs

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BIO-SCI 5899 Required Graduate Enrollment

1 hr

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Dentistry- Professional Courses

DENT 6305 Operative Dentistry I Lecture

An introduction to the prevention and principles of the restorative treatment of dental caries.

1 hr

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DENT 6305 L Operative Dentistry I Laboratory

Restorative procedures discussed in DENT 6305 are performed on laboratory manikins.

2 hrs

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DENT 6306 Introduction To Ethics And Professionalism

An introduction to basic concepts in the analysis of ethics, morals and values. Systems of ethical analysis are introduced and explored using contemporary issues from medicine and dentistry. Students will explore their own ethical values and apply this knowledge to issues in professional education.

1 hr

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DENT 6310 C Clinical Assisting

The student will first learn the principles and techniques of chairside dental assisting with the aid of lectures, demonstrations, and visual aids. The student will then assist third and fourth year students in the clinic. Offered: Fall

3 hrs

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DENT 6312 Dental Behavioral Science I

An introduction to the basic principles of behavioral science as they relate to dentistry. Topics include basic principles of human behavior, compliance and dental self-care behavior, fear and anxiety behavior, pain behavior and stress related to dental practice.

1-2 hrs

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DENT 6314 C Introduction To Oral Diagnosis

A combined lecture/clinic course in which the student will be introduced to the techniques of Oral Diagnosis and the studies of patient history taking, patient examination, patient diagnostic techniques, radiographic techniques, and radiation hygiene. Personal oral hygiene and patient education will be stressed.

3 hrs

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DENT 6315 C 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.

3 hrs

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DENT 6316 Dental Morphology

This lecture/laboratory course introduces the student to dental terminology, then continues with the study of masticatory biomechanics and occlusion. The students' knowledge of dental morphology and occlusion are then reinforced by having them construct wax models of the human succedaneous and permanent dentition.

3 hrs

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DENT 6317 Dental Occlusion

This lecture/laboratory series covers the judicious use of gnathologic instruments in dental reconstruction and occlusal therapy. Provides an introduction to temporomandibular disorders with special emphasis upon pathologies caused by the occlusion. The practical application of gnathologic instruments is demonstrated in the laboratory, followed by various occlusal treatments useful in the management of temporomandibular disorders. Offered: Winter Semester.

3 hrs

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DENT 6318 Dental Biomaterials Lecture

An introduction to the study of common dental materials and their manipulation as used in modern dentistry.

1 hr

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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.

1-2 hrs

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DENT 6335 Applied Neuroscience

This course serves as an introduction to nervous system function and its relation to the practice of dentistry. Primary focus is on synapses, with applications to the innervation of the oral cavity and patient management. Appropriate content and principles from the basic sciences and neurology will be integrated into a unit readily applicable to clinical practice.

2 hrs

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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.

2.5 hrs

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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.

1 hr

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DENT 6410 Operative Dentistry II Lecture

A continuation of DENT 6305. Principles of cavity preparation, materials and techniques are stressed.

1 hr

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DENT 6410 L Operative Dentistry II Laboratory

A continuation of DENT 6305L. Restorative procedures are performed on laboratory manikins and extracted teeth.

2 hrs

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DENT 6411 Operative Dentistry III Lecture

A continuation of DENT 6410.

1 hr

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DENT 6412 Anesthesiology I Lecture

Infiltration and regional anesthesia; technique of injections; complications of local anesthesia; a brief overview of conscious sedation.

1 hr

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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.

4 hrs

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DENT 6415 Pathology II

A study of developmental defects, inflammatory diseases, and neoplasia of the oral region.

2 hrs

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DENT 6416 Complete Removable Prosthodontics I Lecture

A study of the edentulous patient, pre-extraction records, mouth preparation for dentures, impression making, jaw relations, the arrangement of teeth and processing.

1 hr

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DENT 6416 L Complete Removable Prosthodontics I Laboratory

Complete dentures are constructed. Procedures used in the clinic are followed and a manikin serves as the patient.

2 hrs

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DENT 6417 Removable Partial Prosthodontics Lecture

3 hrs

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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.

2 hrs

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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.

1 hr

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DENT 6422 L 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

2 hrs

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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.

1 hr

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DENT 6423 L 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

2 hrs

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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.

1-2 hrs

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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.

2 hrs

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DENT 6429 Dental Behavioral Science II

An in depth study of the processes of effective dentist-patient communication.

1 hr

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DENT 6431 Pediatric Dentistry I Lecture

The student is introduced to techniques used in treating the child patient; including examination, diagnosis, interpretation of intra-and extra-oral radiographs, treatment planning and preventive dentistry.

1 hr

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DENT 6435 Endodontics I Lecture

An introductory course in endodontics emphasizing pulpal biology, endodontic diagnosis and treatment planning.

1 hr

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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.

1 hr

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DENT 6439 Medical Emergencies In The Dental Office

1 hr

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DENT 6440 Oral Surgery I

An introduction to the basic principles of oral surgery.

1 hr

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DENT 6441 C Treatment Planning

The student is introduced to comprehensive treatment planning in dentistry using lectures, cases, and class discussions.

Offered: Winter

2 hrs

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DENT 6442 Endodontics II Lecture

A continuation of the study of endodontics emphasizing non-surgical endodontics, surgical endodontics and post-endodontic treatment.

1 hr

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DENT 6442 L Endodontics Laboratory

The preparation and filling of root canals of extracted teeth in the laboratory setting.

2 hrs

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DENT 6460 C 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.

2 hrs

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DENT 6501 C 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.

1-10 hrs

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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.

1 hr

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DENT 6507 C Pediatric Clinical Dentistry II

Clinical application of those principles taught in preceding terms.

1-2 hrs

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DENT 6509 C 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

1-10 hrs

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DENT 6510 C 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

1-10 hrs

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DENT 6514 Pathology III Lecture

Continued study of pathological conditions of the oral region with emphasis on clinical signs and symptoms.

1 hr

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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.

1 hr

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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.

1 hr

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DENT 6519 Advanced Dental Materials

This course is a review of dental materials in general, an introduction of new materials and uses.

0.5 hrs

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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.

1 hr

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DENT 6522 Oral Surgery Lecture III

A continuation of DENT 6521.

1 hr

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DENT 6522 C Periodontics Clinical II

Clinical application of those principles taught in preceding terms.

1-2 hrs

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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.

2 hrs

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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

1 hr

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DENT 6526 C Preventive Dentistry Clinical

Clinical application of those principles taught in preceding terms.

1 hr

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DENT 6526 L Orthodontics I Laboratory

Orthodontics I is a course designed to introduce the student to the field of orthodontics. The 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

2 hrs

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DENT 6527 Therapeutics

Therapeutic use of drugs in dental practice.

2 hrs

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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.

1 hr

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DENT 6532 C Oral Diagnosis Clinical II

Clinical application of those principles taught in preceding terms.

1-2 hrs

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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.

1 hr

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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.

0.5 hrs

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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

1 hr

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DENT 6542 C Operative Dentistry Clinical II

Clinical application of those principles taught in preceding terms.

1-2 hrs

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DENT 6551 CR Oral Surgery Clinical

Clinical application of those principles taught in preceding terms.

2 hrs

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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.

0.5 hrs

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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

0.5 hrs

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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.

1 hr

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DENT 6562 C Removable Prosthodontics Clinical II

Clinical application of those principles taught in preceding terms.

1-2 hrs

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DENT 6564 Dental Pharmacology

This course presents an introduction into the mechanisms of action, pharmacodynamics, adverse-effects, dosage forms, relevant pharmacokinetics, for the most common outpatient drugs prescribed and used by patients seen by the dentist. This self-study course represents a more independent approach to the teaching of second year dental school pharmacology. The online format will methodically guide the student through the textbook, providing goals and additional references that allow for the self-study of pharmacology. The online course substitutes for the lecture by highlighting important areas of pharmacology that need particular attention and helps focus the dental student's time. By removing the lecture component of the course, the student is allowed to study at times and places of their preference. This allows more flexibility with time, but requires more self-discipline and time management skills from the student. It is not self-paced: Specific chapters and tests must be completed weekly to proceed through the course. Meeting these goals requires more student responsibility than a traditional course. Offered: Spring

2 hrs

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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.

2 hrs

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DENT 6591 C Professional Development I

Clinical application of those principles taught in preceding terms.

1-2 hrs

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DENT 6592 C Professional Development II

Clinical application of those principles taught in preceding terms.

1-2 hrs

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DENT 6593 C Professional Development III

Clinical application of those principles taught in preceding terms.

1-2 hrs

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DENT 6595 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.

1 hr

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DENT 6600 Review Of Clinical Dentistry

A summative review of the basic areas of clinical dentistry.

1-2 hrs

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DENT 6601 C Endodontics Clinical

Clinical application of principles taught in preceding terms.

1-2 hrs

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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.

1 hr

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DENT 6603 Grand Rounds III

A continuation of DENT 6602.

1 hr

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DENT 6604 Grand Rounds Iv

A continuation of DENT 6603.

1 hr

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DENT 6605 Review Of Clinical Dentistry II

A review of foundation knowledge for clinical dentistry.

1-2 hrs

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DENT 6606 C Pediatric Dentistry Clinical I

Clinical application of those principles taught in preceding terms.

1-2 hrs

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DENT 6607 C Pediatric Dentistry Clinical Iv

Clinical application of those principles taught in preceding terms.

1-2 hrs

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DENT 6609 C 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

1-10 hrs

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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.

1 hr

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DENT 6610 C 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

1-10 hrs

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DENT 6611 C Fixed Prosthodontics Clinical I

Clinical application of principles taught in preceding terms.

1-2 hrs

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DENT 6613 Periodontal Treatment Planning

1 hr

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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.

1-2 hrs

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DENT 6614 C 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

1-10 hrs

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DENT 6617 Pediatric Dentistry Seminar

This course is designed to follow and build on the concepts presented in D431. Using a seminar format, students will review pediatric dentistry concepts with emphasis on clinical application. The course is intended for fourth year dental students who have had some initial clinical experience with pediatric patients. Offered: Fall

0.5 hrs

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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.

1 hr

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DENT 6622 C Periodontics Clinical Iv

Clinical application of those principles taught in preceding terms.

1-2 hrs

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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

1 hr

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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.

1 hr

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DENT 6631 Practice Management II

A lecture course which provides a working knowledge of basic practice management topics which will help future practitioners avoid many common mistakes. Specific business systems for managing a dental practice will be presented in a forum which encourages questions and dispels many common practice myths. A profitable private practice model will be presented that is designed to keep the fun in dentistry and minimize burn-out. Each student will then have the opportunity to build their own personal mode, or Personal Practice Blueprint, that will serve as their roadmap when creating their own practice. Upon completion, students should feel competent in running the business side of their practice and maintaining control over their business life. Resources for further study and ongoing support are also provided.

1 hr

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DENT 6632 C Oral Diagnosis Clinical IV

Clinical application of those principles taught in preceding terms.

1-2 hrs

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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.

1 hr

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DENT 6634 Extramural Clinical Rotations (ERC) I

The purpose of this course is to expose third and fourth 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.

1 hr

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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.

1 hr

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DENT 6636 C 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.

2 hrs

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DENT 6641 CR Operative Dentistry Clinical I

Clinical application of principles taught in preceding terms.

1-2 hrs

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DENT 6642 C Operative Dentistry Clinical Iv

Clinical application of those principles taught in preceding terms.

1-2 hrs

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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.

0.5 hrs

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DENT 6656 C 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

1 hr

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DENT 6657 C Orthodontic Clinical II

A continuation of DENT 6656C.

0.5 hrs

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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.

1-6 hrs

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DENT 6691 C Professional Development Iv

Clinical application of those principles taught in preceding terms.

0.5-3 hrs

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DENT 6692 C Professional Development V

Clinical application of those principles taught in preceding terms.

1-2 hrs

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DENT 6899 Required Graduate Enrollment

1 hr

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Endodontics

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

1-6 hrs

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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

1-6 hrs

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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

1-6 hrs

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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.

1-6 hrs

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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

1-6 hrs

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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

1-6 hrs

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General 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.

2 hrs

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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.

1-6 hrs

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G-PRAC 5717 Special Problems In General Practice Dentistry II

A continuation of G-PRAC 5716.

1-6 hrs

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G-PRAC 5718 Special Problems In General Practice Dentistry III

A continuation of G-PRAC 5717.

1-6 hrs

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G-PRAC 5721 General Practice Clinic I

1-10 hrs

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G-PRAC 5722 General Practice Clinic II

1-10 hrs

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G-PRAC 5723 General Practice Clinic III

1-10 hrs

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G-PRAC 5724 Hospital Residency In General Practice Iv

2 hrs

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G-PRAC 5725 Hospital Residency In General Practice V

4 hrs

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G-PRAC 5726 Hospital Residency In General Practice Vi

4 hrs

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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.

1 hr

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G-PRAC 5728 Dental Implantology

The course is designed to include the following topics: history of implantology, implant materials and designs, fibroosseous and osseointegration 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.

1 hr

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G-PRAC 5729 Oral Endosteal Implantology II

A continuation of G-PRAC 5728.

2 hrs

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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.

1-2 hrs

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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.

2 hrs

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G-PRAC 5732 Intravenous And Inhalation Sedation

A comprehensive study of nitrous oxide and valium sedation combining lectures and clinical problems.

2 hrs

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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.

1 hr

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G-PRAC 5741 Interdisciplinary Seminar II

A continuation of G-PRAC 5740.

1 hr

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G-PRAC 5742 Interdisciplinary Seminar III

A continuation of G-PRAC 5741.

1 hr

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G-PRAC 5743 Interdisciplinary Seminar Iv

A continuation of G-PRAC 5742.

1 hr

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G-PRAC 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.

1-6 hrs

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G-PRAC 5899 Required Graduate Enrollment

1 hr

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Oral Biology

OR-BIO 5699 Dissertation Research

Ph.D. dissertation research.

1-12 hrs

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OR-BIO 5807 Structure And Properties Of Calcified Tissues

An introduction to the development of calcified tissues as hierarchical structural/material systems. Starting at the cellular level, bone modeling, remodeling and mechanisms of mineralization will be introduced to be followed by analyzing bone's structural hierarchy and its effects on anisotropic material properties. Fracture mechanisms, viscoelastic and composite properties also will be studied. Experimental techniques measuring various material properties of these tissues will be introduced and/or demonstrated where appropriate. Prerequisite: Consent of instructor.

2 hrs

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OR-BIO 5899 Required Graduate Enrollment

1 hr

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Oral Radiology

OR-RAD 5704 Oral Radiology Residency I

Clinical and didactic study of oral radiology.

1-5 hrs

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OR-RAD 5705 Oral Radiology Residency II

Clinical and didactic study of oral radiology.

1-5 hrs

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OR-RAD 5706 Oral Radiology Residency III

Clinical and didactic study of oral radiology.

1-5 hrs

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OR-RAD 5707 Oral Radiology Residency Iv

Clinical and didactic study of oral radiology.

1-5 hrs

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OR-RAD 5708 Oral Radiology Residency V

Clinical and didactic study of oral radiology.

1-5 hrs

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OR-RAD 5709 Oral Radiology Residency Vi

Clinical and didactic study of oral radiology.

1-5 hrs

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OR-RAD 5716 Special Problems Oral Radiology I

Assigned technical problems in oral radiology.

1 hr

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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.

1 hr

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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.

2 hrs

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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.

2 hrs

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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.

2 hrs

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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.

2 hrs

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Oral Surgery

OR-SURG 5700 Principles Of Oral Surgery I

A conference on diagnosis, treatment planning, surgical technique.

1 hr

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OR-SURG 5701 Principles Of Oral Surgery II

A continuation of OR-SURG. 5700.

1 hr

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OR-SURG 5702 Principles Of Oral Surgery III

A continuation of OR-SURG 5701.

1 hr

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OR-SURG 5703 Principles Of Oral Surgery Iv

A continuation of OR-SURG 5702.

1 hr

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OR-SURG 5704 Clinical Oral Surgery I

The clinical application of the principles of diagnosis, treatment planning, and surgical techniques.

3 hrs

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OR-SURG 5705 Clinical Oral Surgery II

A continuation of OR-SURG. 5704.

3 hrs

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OR-SURG 5706 Clinical Oral Surgery III

A continuation of OR-SURG. 5705.

3 hrs

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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.

1 hr

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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.

1 hr

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OR-SURG 5709 Physical Diagnosis For The Oral & Maxillofacial Surgeon III

Oral and Maxillofacial Surgery and the medically compromised patient.

1 hr

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OR-SURG 5710 Physical Diagnosis For The Oral & Maxillofacial Surgeon Iv

A continuation of OR-SURG 5709.

1 hr

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OR-SURG 5711 Physical Diagnosis For The Oral & Maxillofacial Surgeon V

A continuation of OR-SURG 5710.

1 hr

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OR-SURG 5712 Physical Diagnosis For The Oral & Maxillofacial Surgeon Vi

A continuation of OR-SURG 5711.

1 hr

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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.

1 hr

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OR-SURG 5714 Advanced Physical Diagnosis For Oral & Maxillofacial Surgeon II

A continuation of OR-SURG 5713.

1 hr

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OR-SURG 5715 Advanced Physical Diagnosis For Oral & Maxillofacial Surgeon III

A continuation of OR-SURG 5714.

1 hr

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OR-SURG 5716 Special Problems In Oral And Maxillofacial Surgery I

1 hr

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OR-SURG 5717 Special Problems In Oral And Maxillofacial Surgery II

1 hr

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OR-SURG 5718 Special Problems In Oral And Maxillofacial Surgery III

1 hr

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OR-SURG 5719 Special Problems - Oral & Maxillofacial Surgery Iv

A continuation of ORSG 5718.

1 hr

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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.

1 hr

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OR-SURG 5721 Oral Surgery Hospital Residency II

A continuation of OR-SURG. 5720.

1 hr

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OR-SURG 5722 Oral Surgery Hospital Residency III

A continuation of OR-SURG. 5721.

1 hr

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OR-SURG 5723 Oral Surgery Hospital Residency Iv

A continuation OR-SURG. 5722.

1 hr

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OR-SURG 5724 Oral Surgery Hospital Residency V

A continuation of OR-SURG. 723.

1 hr

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OR-SURG 5725 Oral Surgery Hospital Residency Vi

A continuation of OR-SURG. 5724.

1 hr

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OR-SURG 5726 Tumor Surgery Of The Head And Neck

A discussion of tumors of the head and neck and the surgical treatment of these diseases.

2 hrs

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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.

2 hrs

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OR-SURG 5728 Major Oral Surgery II

A continuation of OR-SURG. 5727.

2 hrs

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OR-SURG 5729 General Anesthesiology And Pharmacology I

The pharmacological principles of the various anesthetic agents and allied medications.

1 hr

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OR-SURG 5730 General Anesthesiology And Pharmacology II

A continuation of OR-SURG. 5729.

1 hr

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OR-SURG 5731 Clinical General Anesthesiology And Pharmacology I

The clinical application of various anesthetic and pharmacological agents.

2 hrs

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OR-SURG 5732 Clinical General Anesthesiology And Pharmacology II

A continuation of OR-SURG. 5731.

2 hrs

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OR-SURG 5733 Clinical General Anesthesiology And Pharmacology III

A continuation of OR-SURG. 5732.

2 hrs

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OR-SURG 5734 Clinical/Major General Anesthesiology And Pharmacology I

The clinical/major surgical application of various anesthetic and pharmacological agents.

1 hr

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OR-SURG 5735 Clinical/Major General Anesthesiology And Pharmacology II

A continuation of OR-SURG 5734.

1 hr

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OR-SURG 5736 Clinical/Major General Anesthesiology And Pharmacology III

A continuation of OR-SURG 5735.

1 hr

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OR-SURG 5737 Pediatric General Anesthesiology And Pharmacology I

The pharmacological principles of various anesthetic agents and allied medications in the pediatric patient.

1 hr

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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.

1-6 hrs

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OR-SURG 5752 Seminar In Oral Surgery I

A discussion of current literature and research relating to oral surgery.

1 hr

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OR-SURG 5753 Seminar In Oral Surgery II

A continuation of OR-SURG. 5752.

1 hr

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OR-SURG 5754 Seminar In Oral Surgery III

1 hr

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OR-SURG 5755 Seminar In Oral Surgery Iv

A continuation of OR-SURG 5754.

1 hr

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Orthodontics

ORTHOD 5704 Orthodontics And Dentofacial Orthopedics I

Orthodontic theory, treatment techniques and treatment of patients; includes current and historical concepts.

1-6 hrs

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ORTHOD 5705 Orthodontic And Dentofacial Orthopedics II

A continuation of ORTHOD 5704.

1-6 hrs

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ORTHOD 5706 Orthodontics And Dentofacial Orthopedics III

A continuation of ORTHOD 5705.

1-6 hrs

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ORTHOD 5707 Orthodontics And Dentofacial Orthopedics Iv

A continuation of ORTHOD 5706.

1-6 hrs

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ORTHOD 5708 Orthodontic And Dentofacial Orthopedics V

A continuation of ORTHOD 5707.

1-6 hrs

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ORTHOD 5709 Orthodontic And Dentofacial Orthopedics Vi

A continuation of ORTHOD 5708

1-6 hrs

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ORTHOD 5710 Orthodontic And Dentofacial Orthopedics Vii

A continuation of ORTHOD 5709.

1-6 hrs

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ORTHOD 5711 Orthodontics And Dentofacial Orthopedics Viii

A continuation of ORTHOD 5710.

1-6 hrs

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ORTHOD 5726 Cephalometric I

An introductory lecture and laboratory course in the principles of radiographic cephalometry and integrated cephalometric analysis.

2 hrs

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ORTHOD 5727 Cephalometric II

An advanced lecture and laboratory course with emphasis on the use of a computer in cephalometric analysis.

2 hrs

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Pediatric Dentistry

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.

1-3 hrs

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PEDS 5701 Principles Of Pediatric Dentistry II

A continuation of PEDS 700.

1 hr

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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, Crainiofacial Anomalies Team, Hemophilia Team, Cancer Care Team, Sickle Cell Anemia Team, and the Newborn Intensive Care Follow-up Clinic.

1 hr

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PEDS 5721 Pediatric Dentistry Hospital Residency II

A continuation of PEDS 720.

1 hr

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PEDS 5722 Pediatric Dentistry Hospital Residency III

A continuation of PEDS 721.

1 hr

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PEDS 5728 Cleft Palate Problems-Team Approach

(1). Presentations by the members of the Cleft Palate Team at Children's Mercy Hospital. The role of genetics, speech, audiology, ENT, oral surgery, plastic surgery, orthodontics, pediatric dentistry, prosthodontics, social services, nutrition, and child psychology in the rehabilitation of the cleft palate patient will be discussed.

1 hr

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Pedodontics

PEDO 5899 Required Graduate Enrollment

1 hr

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Periodontics

PERIO 5700 Periodontic Residency I

Didactics, Seminars in Basic Periodontics with Clinical Practice.

1-2 hrs

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PERIO 5701 Periodontic Residency Vii

Didactic and Seminar in Periodontics with Clinical Practice.

1-6 hrs

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PERIO 5702 Periodontic Residency II

Clinical Periodontics with related didactic and seminar.

1-6 hrs

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PERIO 5705 Periodontal Residency III

Clinical Periodontics with Related Didactics and Seminars.

1-6 hrs

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PERIO 5706 Periodontics Residency III

A continuation of PERIO. 5705.

1-6 hrs

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PERIO 5707 Periodontic Residency Iv

Clinical Periodontics with Related Didactics and Seminar.

1-6 hrs

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PERIO 5708 Periodontic Residency V

Clinical Periodontics with Related Didactics and Seminar.

1-6 hrs

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PERIO 5709 Periodontic Residency Vi

Clinical Periodontics with Related Didactics and Seminar.

1-6 hrs

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PERIO 5716 Periodontic Residency Ix

Didactic in Surgical Periodontics with Clinical Practice.

1 hr

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PERIO 5717 Special Problems In Periodontics II

A continuation of PERIO 5716.

1 hr

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PERIO 5718 Special Problems In Periodontics III

A continuation of PERIO 5717.

1 hr

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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.

2 hrs

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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 pharmacology of sedative, analgesic and anesthetic agents as well as drug interactions.

1 hr

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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.

1 hr

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PERIO 5728 Introduction To Internal Medicine And Diagnosis II

A continuation of PERIO. 5727.

1 hr

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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.

2 hrs

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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.

1-2 hrs

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PERIO 5751 Seminar In Periodontics I

A discussion of the classic and pertinent periodontal literature.

2 hrs

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PERIO 5752 Seminar In Periodontics II

A continuation of PERIO 5751.

2 hrs

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PERIO 5753 Seminar In Periodontics III

A continuation of PERIO 5752.

2 hrs

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PERIO 5754 Seminar In Periodontics Iv

A continuation of PERIO 5753.

2 hrs

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PERIO 5755 Seminar In Current Periodontal Literature/Treatment Planning V

A discussion of the current research and literature relating to periodontics and the utilization of current knowledge to patient treatment planning.

2 hrs

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PERIO 5756 Seminar In Current Periodontal Literature/Treatment Planning Vi

A continuation of PERIO 5755.

2 hrs

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PERIO 5757 Seminar Current Periodontal Literature & Treatment Planning Vii

A continuation of PERIO 5756.

2 hrs

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PERIO 5758 Seminar Current Periodontal Literature & Treatment Planning Viii

A continuation of PERIO 5757.

2 hrs

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PERIO 5799 Research And Thesis

1-6 hrs

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PERIO 5899 Required Graduate Enrollment

1 hr

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Research Methodology- Dentistry

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.

2-3 hrs

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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.

2-4 hrs

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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.

2-4 hrs

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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.

1 hr

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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.

2-3 hrs

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RES-ME 5705 A 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.

2 hrs

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RES-ME 5705 B 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.

2 hrs

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RES-ME 5705 C 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.

2 hrs

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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.

1 hr

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School of Education

School of Education Courses Counseling Psychology and Counselor Education

CPCE 5500 Introduction To Professional Counseling

Introduction to counseling and counseling psychology as professions practiced in a variety of settings. Basic concepts of mental health, client problems, history of the profession, ethics and standards, counseling in a multicultural and pluralistic society and credentialing. Includes use of professional journals and library investigation. May be taken prior to admission. For Mental Health and Couples and Families emphases only.

3 hrs

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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. May be taken prior to admission. For School Counseling Emphasis only.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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: Crosslisted: PSYCH 5510

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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. Prerequisite: PSYCH 5622 or Co/pre-requisite: CPCE 5520 Offered: Fall, Winter, Summer

3 hrs

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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

3 hrs

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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

3 hrs

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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

3-6 hrs

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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

3 hrs

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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.

1-6 hrs

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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 5531.

3 hrs

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CPCE 5541 Couples And Family Therapy

Introduction to and overview of couples and family therapy. Discussion of major theoretical positions, demonstrations of therapy strategies, role playing and case study examples.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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CPCE 5575 Internship In Counseling

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 adviser.

3-16 hrs

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CPCE 5575 C Internship In Counseling

This is a 2-semester applied experience in a planned, supervised program. For each semester, students spend 17.5 hours per week at an off-site agency or school participating in a variety of activities (e.g., individual and group counseling, administration) and attend a 3-hour weekly intern class. Students are expected to select internship sites to match their areas of emphasis (Marriage and Family, Mental Health, School Counseling, and Substance Abuse). Preregistration by application at least 60 days prior to beginning of semester. Approval by the Counseling Psychology and Counselor Education Internship Coordinator required. Prerequisites: CPCE 5532 and consent of adviser

3-16 hrs

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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.

1-6 hrs

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CPCE 5589 CA Special Topics

1-6 hrs

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CPCE 5589 NP Special Topics**1-6 hrs**[back to top](#)**CPCE 5589 PT Special Topics****1-6 hrs**[back to top](#)**CPCE 5589 SE 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.

1-6 hrs[back to top](#)**CPCE 5589 SG Special Topics****1-6 hrs**[back to top](#)**CPCE 5589 TL Special Topics****1-6 hrs**[back to top](#)**CPCE 5590 Seminar**

Discussion and evaluation of literature in Counseling Psychology and Counselor Education.

3 hrs[back to top](#)**CPCE 5590 CF Seminar**

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

3 hrs[back to top](#)**CPCE 5590 MH 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.

3 hrs[back to top](#)**CPCE 5598 Individual Studies**

Review of the research and trends relative to selected problems. By prior arrangement with instructor.

1-6 hrs[back to top](#)**CPCE 5599 Research And Thesis**

By arrangement.

1-9 hrs[back to top](#)

CPCE 5600 Introduction To Counseling Psychology

Introduction to the science and practice of professional counseling psychology. Orientation to University of Missouri-Kansas City and the Counseling Psychology Program

1 hr

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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 and CPCE 5620 with grades of B or better.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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

1-6 hrs

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CPCE 5640 Theories And Methods Of Counseling Supervision

This course offers an overview of counseling supervision theories and models, exposure to recent research and information about the supervision process, supervisory tasks and roles as well as ethical responsibilities. Admission to the doctoral or education specialist programs in the Division of Counseling, Educational Psychology and Exercise Science is required. Prerequisite: CPCE 5631

2 hrs

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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

1 hr

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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.

3 hrs

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CPCE 5650 Seminar In Current Issues In Counseling Psychology

Professional issues related to counseling psychology and counseling programs. Special emphasis on ethical and legal issues and other professional concerns of counseling psychologists and counselors.

3 hrs

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CPCE 5675 Internship In Counseling Psychology

Applied experiences in a professional setting under supervision of licensed psychologists.

1-16 hrs

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CPCE 5690 Special Problems

Individual studies; thesis exploration; special reading.

1-6 hrs

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CPCE 5699 Research And Dissertation

By arrangement.

1-16 hrs

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Curriculum and Instruction

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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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EDUC-C&I 5554 Assessment In Science Education

Advanced study of science education assessment with option for elementary or secondary emphasis.

3 hrs

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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 EDUL5525, 5526, 5527, or 5528 and Instructor Approval.

3 hrs

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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 student's 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.

3 hrs

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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 inequities 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-CI 5560 or EDUC-CI 5561 or EDUC-CI 5562 and Instructor approval. Offered: Summer

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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 mediational effects on the types and quality of learning that result from that process.

3 hrs

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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

3 hrs

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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.

3 hrs

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EDUC-C&I 5575 Internship - Early Childhood

Applied experiences in a planned, supervised curriculum program. Seminar accompanies internship experiences. Prerequisite: Consent of advisor.

3-16 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

1-6 hrs

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EDUC-C&I 5585 Teaching and Learning with Techonolgy

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.

3 hrs

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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.

1-6 hrs

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EDUC-C&I 5589 AM Special Topics In Education

1-6 hrs

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EDUC-C&I 5589 CD Special Topics In Education

1-6 hrs

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EDUC-C&I 5589 Special Topics In Education

1-6 hrs

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EDUC-C&I 5589 ES Special Topics

3 hrs

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EDUC-C&I 5589 Special Topics In Education

1-6 hrs

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EDUC-C&I 5589 Special Topics

3 hrs

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EDUC-C&I 5589 HR Special Topics In Education**1-6 hrs**[back to top](#)**EDUC-C&I 5589 Special Topics In Education****1-6 hrs**[back to top](#)**EDUC-C&I 5589 SC Special Methods Science****5 hrs**[back to top](#)**EDUC-C&I 5589 SE Special Methods English****5 hrs**[back to top](#)**EDUC-C&I 5589 SM Special Methods Math****5 hrs**[back to top](#)**EDUC-C&I 5589 SS Special Methods Social Studies****5 hrs**[back to top](#)**EDUC-C&I 5589 TM 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.

1-6 hrs[back to top](#)**EDUC-C&I 5590 Seminar**

Discussion and evaluation of literature in curriculum. Prerequisite: EDUC-CI 5505 or consent of instructor.

3 hrs[back to top](#)**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.

3 hrs[back to top](#)**EDUC-C&I 5595 Action Research For Practitioners**

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.

3 hrs[back to top](#)

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.

3 hrs

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EDUC-C&I 5598 Individual Studies

Review of the research and trends relative to curriculum in education. By prior arrangement with instructor.

1-6 hrs

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EDUC-C&I 5618 Survey Of Research In Curriculum

Review and analysis of research in curriculum theory and methods.

3 hrs

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EDUC-C&I 5619 Systemic Curriculum Evaluation and Review

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.

3 hrs

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EDUC-C&I 5620 Seminars In Theories Related To Curriculum

Study of major historical developments in curriculum and their influence on contemporary models and practices.

Prerequisite: EDUC-CI 5504 or EDUC-CI 5505.

3 hrs

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EDUC-C&I 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.

2-5 hrs

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EDUC-C&I 5690 Special Problems

Individual studies: thesis exploration, special reading.

1-6 hrs

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EDUC-C&I 5697 Dissertation Curriculum And Instruction

By arrangement.

1-16 hrs

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Education

EDUC 5428 Cultural Diversity And American Education

An examination of educational needs and strategies in a culturally diverse society based on a study of several major ethnic and nationality groups in America from historical, anthropological and sociological perspectives. This course may be team-taught.

3 hrs

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EDUC 5534 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.

3 hrs

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EDUC 5541 Teach Reading Improve At Secondary-College-Adult Level

Classroom and laboratory techniques of reading instruction; study skills; reading in content subjects; and evaluation of reading improvement programs.

3 hrs

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EDUC 5542 Introduction Diagnostic-Treatment Procedures In Reading

Identification and classification of reading disability; role of the Special Reading Teacher; factors related to reading disability; special techniques used in remedial reading instruction; analysis of reading performance.

3 hrs

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EDUC 5552 Advanced Diagnostic And Treatment Procedures In Reading

Significant aspects of reading disability; diagnostic testing; case report writing; interpretation of test data; implications of test data for recommendations. Prerequisites: EDUC 5542 and permission of instructor. May be taken concurrently with EDUC 5575R.

3 hrs

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EDUC 5575 R Internship In Reading

3-16 hrs

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EDUC 5589 AQ Special Topics In Education

1-6 hrs

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EDUC 5589 B Special Topics In Education

1-6 hrs

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EDUC 5589 Q Special Topics In Education

1-6 hrs

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EDUC 5590 R Seminar In Reading

3 hrs

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EDUC 5598 Individual Studies

Review of the research trends relative to selected problems in education. By prior arrangement with instructor.

1-6 hrs

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EDUC 5598 A Individual Studies In Administration

1-6 hrs

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EDUC 5598 B Individual Studies In Mathematics

1-6 hrs

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EDUC 5598 C Individual Studies Curriculum

1-6 hrs

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EDUC 5598 H Individual Studies Higher Education

1-6 hrs

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EDUC 5598 J Individual Studies Philosophy Of Education

1-6 hrs

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EDUC 5598 P Individual Studies Educational Psychology

1-6 hrs

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EDUC 5598 O Individual Studies Early Childhood Education

1-6 hrs

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EDUC 5598 R Individual Studies Education Reading

1-6 hrs

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EDUC 5598 S Individual Studies Research

1-6 hrs

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EDUC 5598 SA Individual Studies Research

1-6 hrs

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EDUC 5598 U Individual Studies History Of Education

1-6 hrs

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EDUC 5598 X Individual Studies Sociological Foundations

1-6 hrs

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EDUC 5599 Research And Thesis

By arrangement.

1-9 hrs

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EDUC 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: EDUC 5542 and EDUC 5527.

3 hrs

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EDUC 5621 Practicum In Curriculum And Instruction

A field experience which provides an opportunity for the application of current research in the area of curriculum and instruction to an educational setting. Prerequisite: Consent of adviser.

3-6 hrs

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EDUC 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.

2-5 hrs

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EDUC 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, EDUC 5552, EDUC 5575 or consent of instructor.

3 hrs

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EDUC 5690 Special Problems

Individual studies; thesis exploration, special reading.

1-6 hrs

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EDUC 5695 Doctoral Dissertation: Reading Education

By arrangement.

1-16 hrs

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EDUC 5696 Dissertation Administration And Community Leadership

By arrangement.

1-16 hrs

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EDUC 5697 Dissertation Curriculum And Instruction

By arrangement.

1-16 hrs

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EDUC 5698 Dissertation General Education

By arrangement.

1-16 hrs

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EDUC 5899 Required Graduate Enrollment

1 hr

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Education Reading

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.

3 hrs

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Research and Psychology

EDUC-R&P 5502 Advanced Educational Psychology

Critical examination of the contributions of psychological principles and findings to the field of education.

3 hrs

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EDUC-R&P 5505 Statistical Methods I

Non-theoretical approach to statistical procedure, including introduction to simple analysis of variance.

3 hrs

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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.

3 hrs

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EDUC-R&P 5510 Child Behavior And Development

Growth, maturation, and learning processes in children.

3 hrs

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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.

3 hrs

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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

3 hrs

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EDUC-R&P 5522 Principles Of Testing

Measurement theory, uses and limitation of assessment procedure.

3 hrs

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EDUC-R&P 5575 Internship

Applied experiences in a planned, supervised program in research or educational psychology. Prerequisite: Consent of advisor.

3-16 hrs

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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.

3 hrs

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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.

1-6 hrs

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EDUC-R&P 5589 AD Special Topics in Education

1-6 hrs

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EDUC-R&P 5589 AT Special Topics in Education

1-6 hrs

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EDUC-R&P 5589 CP Special Topics In Education

1-6 hrs

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EDUC-R&P 5589 DB 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.

1-6 hrs

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EDUC-R&P 5589 Special Topics in Education

1-6 hrs

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EDUC-R&P 5589 PR Special Topics In Education

1-6 hrs

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EDUC-R&P 5589 SE Special Topics In Education

1-6 hrs

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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.

1-6 hrs

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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..

3 hrs

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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.

3 hrs

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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/PSY5516 and basic knowledge of and SPSS OR SAS software and research design (EDUC-RP 5505, PSYCH 302). Cross-listed: PSYCH 5517 Offered: Winter.

3 hrs

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EDUC-R&P 5608 Introduction To Graduate Research

This course is an introduction to quantitative and qualitative research methods. Students in the course develop a research proposal on an approved topic of their choice.

3 hrs

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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

3 hrs

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EDUC-R&P 5611 Structural Equation Models

Students will learn core techniques in structural equation modeling, including; path analysis, confirmatory factor analysis, structural regression models; and be introduced to advanced topics like multi-group SEM and latent growth models. There will be multiple lab sessions using appropriate computer applications. Prerequisites: EDRP 5606/PSYCH 5517

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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EDUC-R&P 5639 Educational Psychology: Focus On College Teaching

An introduction to theories and principles from educational psychology as they relate to learning, motivation, assessment, and instruction. Prerequisite: Doctoral Student Status

2-3 hrs

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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

1-3 hrs

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EDUC-R&P 5690 Special Problems

Individual studies; thesis exploration, special reading.

1-6 hrs

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EDUC-R&P 5698 Dissertation In Educational Research & Psychology

By arrangement.

1-16 hrs

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Special Education

EDUC-SP 5506 Iep, Transition, And The Law

This course provides a background in historical and legal issues related to the field of special education. The course will focus on issues and practices related to developing individualized programs including Individualized Family Service Plans (IFSP), Individual Education Programs (IEP), and Individual Transition Plans (ITP). Salient features of the Individuals with Disabilities in Education Act (IDEA) will be examined with respect to court cases, amendments, and reauthorization.

3 hrs

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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.

3 hrs

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EDUC-SP 5508 Evaluation Of Abilities & Achievement In Special Education

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. Prerequisites: Intro to MM/CC Disabilities & Methods of Teaching Students with MM/CC Disabilities

3 hrs

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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

3 hrs

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EDUC-SP 5510 Apprenticeship Teaching In M/M Cross-Categorical Disabilities

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.

1-4 hrs

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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.

3 hrs

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EDUC-SP 5514 Soc & Affective Interventions M/M 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. The purpose of this course is to provide candidates with behavioral assessment strategies and behavior management techniques. Candidates will learn validated practices for managing challenging behaviors, facilitating formal behavioral assessment, creating positive behavioral supports, conducting functional behavioral assessment, developing behavior intervention programs, and applications in social skills training.

3 hrs

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EDUC-SP 5516 Philosophical & Family Issues In Special Education

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.

3 hrs

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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.

3 hrs

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EDUC-SP 5570 Practicum In M/M Cross-Categorical Disabilities

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.

1-6 hrs

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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.

1-6 hrs

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EDUC-SP 5598 Individual Studies

Review of the research and trends relative to selected problems in special education. By prior arrangement with instructor.

1-6 hrs

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Teacher Education

TCH-ED 5404 Education Of The Exceptional Child And Youth

Students will be introduced to identification and educational intervention procedures for educating exceptional children and adolescents in mainstream classroom situations. Fall and Winter.

3 hrs

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TCH-ED 5412 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.

3 hrs

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TCH-ED 5413 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.

3 hrs

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TCH-ED 5417 Science Methods In The Elementary School

The course prepares pre-service teachers to teach science from a constructivist, inquiry-oriented perspective.

3 hrs

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TCH-ED 5418 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.

3 hrs

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TCH-ED 5420 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.

3 hrs

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TCH-ED 5427 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.

3 hrs

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TCH-ED 5432 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.

3 hrs

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TCH-ED 5433 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.

3 hrs

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TCH-ED 5435 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

3 hrs

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TCH-ED 5436 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.

3 hrs

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TCH-ED 5440 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.

3 hrs

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TCH-ED 5441 Literacy Development I

An introduction to how language is acquired and how to facilitate oral language expression in early childhood classrooms.

3 hrs

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TCH-ED 5442 Observation, Assessment & Screening In Early Childhood Classrooms

This course is designed to identify developmentally appropriate ways to measure and evaluate child growth and development.

3 hrs

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TCH-ED 5445 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.

3 hrs

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TCH-ED 5447 Social Studies In Early Childhood & Elementary Schools

This course is designed to help students understand basic social studies concepts and pedagogy for young learners.

3 hrs

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TCH-ED 5450 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.

3-4 hrs

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TCH-ED 5451 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.

3 hrs

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TCH-ED 5452 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).

4 hrs

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TCH-ED 5453 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).

2 hrs

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TCH-ED 5454 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.

3 hrs

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TCH-ED 5457 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.

3 hrs

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TCH-ED 5458 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."

1 hr

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TCH-ED 5459 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

2 hrs

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TCH-ED 5460 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

2 hrs

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TCH-ED 5462 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

2 hrs

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TCH-ED 5470 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.

3 hrs

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Urban Leadership

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.

3 hrs

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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

3 hrs

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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

3 hrs

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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.

3 hrs

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EDUC-UL 5505 Middle School Administration

Middle school goals, effective middle school leadership, change models for staff development, relevant curricula, auxiliary and support systems.

3 hrs

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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.

3 hrs

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EDUC-UL 5507 Instructional Supervision

Principles of supervision, factors influencing effectiveness of instruction, including the evaluation of teachers.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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EDUC-UL 5514 Public Relations In Education

Analysis of various public views on education; mass communications and social change; public relations programs.

3 hrs

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EDUC-UL 5515 Governmental And Legal Aspects Of Education

Current and recent legislation affecting education; court cases related to education; emerging patterns of modern jurisprudence; administrators' responsibilities regarding legal decisions.

3 hrs

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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.

3 hrs

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EDUC-UL 5520 School Administration In A Metropolitan Context

Sociological and philosophical study of school administration in metropolitan areas. Major trends: experimental projects conducted in urban school systems; organizational patterns and communication networks.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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EDUC-UL 5559 Current Issues In Higher Education

A course responsive to the contemporary issues in college and university administration, addressing interesting and important topics that fall outside the scope of other courses in higher education curriculum. Students will have an overview of the organization of American higher education and will explore source materials available for higher education research.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3-6 hrs

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EDUC-UL 5571 Internship In Higher Education

Applied experiences in a planned, supervised program. Seminar accompanies internship experiences. Prerequisite: Consent of advisor.

3-16 hrs

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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.

3 hrs

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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.

3-6 hrs

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EDUC-UL 5575 Internship In Administration

Applied experiences in a planned, supervised educational administration program. Seminar accompanies internship experiences. Prerequisite: Consent of advisor.

3-16 hrs

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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.

1-6 hrs

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EDUC-UL 5589 CP Special Topics In Educational Leadership

1-6 hrs

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EDUC-UL 5589 EA 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.

1-6 hrs

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EDUC-UL 5589 ED 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.

1-6 hrs

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EDUC-UL 5589 EL 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.

1-6 hrs

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EDUC-UL 5589 ET 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.

1-6 hrs

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EDUC-UL 5589 HR Special Topics In Educational Leadership

1-6 hrs

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EDUC-UL 5589 SM Special Topics In Educational Leadership

1-6 hrs

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EDUC-UL 5590 Seminar

Discussion and evaluation of literature in Education Administration. Prerequisite: Consent of instructor.

3 hrs

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EDUC-UL 5598 Individual Studies

Review of the research and trends relative to selected problems in education. By prior arrangement with instructor.

1-6 hrs

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EDUC-UL 5601 Research In Education Administration: Qualitative Theory & Design

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.

3 hrs

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EDUC-UL 5602 Seminar In The History Of American Urban Education

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.

3 hrs

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EDUC-UL 5603 Research In Education Administration: Qualitative Data & Analysis

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.

3 hrs

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EDUC-UL 5604 Introduction to Doctoral Study

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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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EDUC-UL 5627 Advanced Educational Supervision

Principles and concepts of educational supervision and implementation. Prerequisite: EDUC-UL 5507 or equivalent.

3 hrs

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EDUC-UL 5628 The Superintendency

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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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.

2-5 hrs

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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.

3 hrs

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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.

3 hrs

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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.

3 hrs

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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

3 hrs

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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.

3 hrs

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EDUC-UL 5690 Special Problems

Individual studies; thesis exploration, special reading.

1-6 hrs

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EDUC-UL 5690 A Special Problems

Individual studies; thesis exploration, special reading.

1-6 hrs

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EDUC-UL 5696 Dissertation Administration And Community Leadership

Culminating written research project for doctoral students in Urban Leadership and Policy Studies. Consent of advisor.

1-16 hrs

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School of Graduate Studies

School of Graduate Studies Courses School of Graduate Studies

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

3 hrs

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SGS 5550 A 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.

1 hr

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SGS 5550 B 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.

1 hr

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SGS 5550 C 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.

1 hr

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SGS 5550 D 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.

1 hr

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SGS 5550 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.

1 hr

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SGS 5550 F 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.

1 hr

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SGS 5590 A Special Topics**1 hr**[back to top](#)**SGS 5590 B Special Topics****1 hr**[back to top](#)**SGS 5590 C Special Topics****1 hr**[back to top](#)**SGS 5590 D Special Topics****1 hr**[back to top](#)**SGS 5590 Special Topics****1 hr**[back to top](#)**SGS 5590 F Special Topics****1 hr**[back to top](#)

School of Medicine

School of Medicine Courses Anesthesia

ANESTH 5503 Physical Methods for Anesthesiologist Assistants

Basic concepts in electricity, gas/liquid interfaces, statistics and computer systems needed for subsequent work.

Prerequisites: Consent of the department

2 hrs[back to top](#)**ANESTH 5505 Anatomy for AAs**

Provides a specialized introduction to clinical human anatomy for students seeking a Masters of Science in Anesthesia, Clinical aspects for the anatomy with examples and case presentations will be included. Prerequisites: Acceptance to the MSA program

4 hrs[back to top](#)**ANESTH 5540 Patient Monitoring and Instrumentation I**

Students are taught the proper balance between circuits and engineering concepts and the clinical application of anesthesia instrumentation. Monitors and devices used in the operation room are studied with respect to principles of operation, calibration and interpretation of data. A hands-on laboratory is utilized to maximize direct contact to the instrumentation of the profession. Prerequisites: Consent of the department.

2 hrs[back to top](#)

ANESTH 5541 Patient Monitoring and Instrumentation II

ANES 5541 Patient Monitoring and Instrumentation II. Continuation of ANES 5540. Prerequisite: ANES 5540

2 hrs

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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

3 hrs

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ANESTH 5557 Physiology for Anesthesiologist Assistants II

Applied Physiology for Anesthesiologist Assistants II. Continuation of ANES 5556. Prerequisites: ANES 5503 and ANES 5556

3 hrs

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ANESTH 5558 Anesthesia & Co-existing Disease I

The essential link from basic anatomy and physiology to anesthesia care. Prerequisite: ANES 5556

2 hrs

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ANESTH 5559 Anesthesia & Co-existing Disease II

The essential link from basic anatomy and physiology to anesthesia care. Prerequisite: ANES 5558

2 hrs

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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.

2 hrs

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ANESTH 5561 Orientation to Clinical Experience and Model-based Simulation

Introduction to experience in the operating room with emphasis on the fundamental procedures and techniques used in administering an anesthetic. Preoperative assessment, IV placement techniques, airway management, intraoperative patient care and postoperative management are all emphasized in this course. BLS (Basic Life Support) certification is required for course completion. Prerequisite: Consent of the department.

3 hrs

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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.

1 hr

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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.

4 hrs

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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

1 hr

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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.

8 hrs

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ANESTH 5567 Anesthesia Clinical Experience III

ANES 5567 Anesthesia Clinical Experience III (4)- Extended exposure to all of the clinical subspecialties of anesthesiology (obstetrics, pediatrics, neurosurgery, cardiovascular, etc.). Students alternate through rotations at several hospitals. Prerequisite: ANES 5565; ACLS and PALS certification.

11 hrs

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ANESTH 5568 Anesthesia Clinical Correlation III

Anes 5564 Anesthesia Clinical Correlation III (1)- The second year equivalent of ANES 5562. Prerequisite: ANES 5564

1 hr

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ANESTH 5569 Anesthesia Clinical Experience IV

ANES 5569 Anesthesia Clinical Experience IV (8) A continuation of ANES 5567. A comprehensive clinical examination is administered at the end of the semester. Prerequisite: ANES 5567

15 hrs

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ANESTH 5570 Anesthesia Clinical Correlation IV

ANES 5570 Anesthesia Clinical Correlation IV (1) The second year equivalent of ANES 5564. Prerequisite ANES 5568

1 hr

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ANESTH 5571 Anesthesia Clinical Experience V

Anesthesia Clinical Experience V (8)- A continuation of ANES 5569. A comprehensive clinical examination is administered at the end of the semester. Prerequisite: ANES 5569

15 hrs

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ANESTH 5573 Anesthesia Clinical Experience VI

This is a 15 credit hour clinical clerkship. Students are in the OR five days per week and will receive extended exposure to clinical subspecialties; i.e., obstetrics, pediatrics, cardiothoracic.

15 hrs

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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.

3 hrs

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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.

2 hrs

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ANESTH 5577 Cardiovascular Monitoring for Anesthesiologist Assistants

Diagnosis and practical applications of electrocardiography as monitoring techniques in the operating room. Prerequisites: Consent of the department.

2 hrs

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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.

1 hr

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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.

1 hr

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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.

1 hr

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ANESTH 5583 Fundamentals of Anesthetic Science IV

This one hour course is a continuum of basic science that covers a series of topics in basic medical science with special emphasis on the effects of anesthetics on normal physiology. They are presented by anesthesia clinical faculty, anesthesiology medical residents, and student anesthesiologist assistants.

1 hr

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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.

2 hrs

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ANESTH 5586 Physiological Model-based Simulation II

ANES 5586 Physiological Model-based Simulation II (1) An extension of ANES 5585 with an emphasis 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

2 hrs

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ANESTH 5587 Model-based Critical Simulation Lab

ANES 5587 Physiological Model-based Simulation II (1) An extension of ANES 5586 emphasizing the physical techniques aspects of crisis management, team work and rescue in anesthesia, including support for and review of training in BLS and ACLS. Prerequisite: ANES 5586

2 hrs

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ANESTH 5588 Ethic Law diversity for Anesth Student

ANES5588 Ethics, law and diversity for anesthesiologist assistant practice; 1) Psychological considerations in providing anesthesia care, 2) Legal obligations of anesthetists, and the rights of their patients, and 3) Ethical considerations in medicine. Grading consists of role playing, case analysis and comprehensive final exam. Prerequisite: Consent of the department

2 hrs

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Basic Medical Science

BMS 9265 Human Biochemistry 1 - 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.

5 hrs

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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

7 hrs

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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.

6 hrs

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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.

5 hrs

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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.

9 hrs

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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.

6 hrs

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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.

4 hrs

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Medicine

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 life styles. 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.

5 hrs

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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.

1 hr

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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, smoothes transition to college-level work, and further develops reasoning and thinking skills that apply to medical school

1 hr

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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 life styles. 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.

5 hrs

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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.

5 hrs

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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.

5 hrs

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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.

1 hr

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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.

1 hr

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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.

8 hrs

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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.

12 hrs

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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

5 hrs

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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.

5 hrs

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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.

2 hrs

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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.

3 hrs

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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.

5 hrs

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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.

5 hrs

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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

10 hrs

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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.

5 hrs

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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.

5 hrs

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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.

2 hrs

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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.

5 hrs

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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.

2 hrs

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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.

2 hrs

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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.

5 hrs

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MEDICINE 9503 Pediatrics Rotation

This two-month rotation is designed to help students master the 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.

10 hrs

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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.

10 hrs

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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.

10 hrs

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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.

5 hrs

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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.

5 hrs

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MEDICINE 9516 The Physician and the Patient in 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.

5 hrs

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MEDICINE 9518 Medicine, Literature and Law

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.

5 hrs

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MEDICINE 9570 Family Practice 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.

5 hrs

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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.

5 hrs

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MEDICINE 9578 Healing and the Arts

5 credit hours toward the M.D. degree. Lecture, discussion.

5 hrs

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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.

5 hrs

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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.

2 hrs

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MEDICINE 9594 The Body Image in Medicine & the Arts

5 credit hours toward the M.D. degree. Lecture, discussion, writing about ethical issues related to death.

5 hrs

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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.

5 hrs

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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.

5 hrs

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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.

5 hrs

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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.

2 hrs

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MEDICINE 9701 Clinical Research

5 hrs

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MEDICINE 9701 Clinical Research

5 hrs

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MEDICINE 9703 Academic Research

5 hrs

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MEDICINE 9703 Academic Research

5 hrs

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MEDICINE 9714 Academic General Year I

1 hr

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MEDICINE 9715 Independent Readings Month

5 hrs

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MEDICINE 9715 Independent Readings Month

5 hrs

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MEDICINE 9716 Independent Study Month

5 hrs

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MEDICINE 9716 Independent Study Month

5 hrs

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MEDICINE 9719 Health Policy

5 hrs

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MEDICINE 9719 Health Policy

5 hrs

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MEDICINE 9729 OS General Oral Surgery

1 hr

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MEDICINE 9932 Nuclear Med-Nuclear Radiology

5 hrs

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MEDICINE 9964 Plastic Surgery-General

5 hrs

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MEDICINE 9964 Plastic Surgery-General

5 hrs

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MEDICINE 9991 Palliative Care

5 hrs

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Medical Bioinformatics

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.

3 hrs

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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.

3 hrs

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School of Nursing

School of Nursing Nursing

NURSE 5515 NA 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.

3 hrs

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NURSE 5515 NE Preparing Nurse Educators

This course will explore the role of the nurse educator. Emphasis will be the development and evaluation of the nurse educator in the functional areas of community education, staff education, and academic education. In each of these areas topics such as role transition, productivity, job duties/responsibilities, and role enactment evaluation, will be discussed and compared one to the other. Core content includes: role theory, subroles of the nurse educator (leader, learning facilitator, collaborator/consultant, inquirer, and clinical expert), adult education philosophy, the effect of education research on nurse education and trends of nursing education. Prerequisite: Admission to the MSN program or permission from instructor.

3 hrs

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NURSE 5516 Curriculum Development in Nursing

Examines theoretical foundations, principles, and issues in curriculum design. Explores systematic evaluation of curriculum at all levels. Prerequisites/Co-requisite: NURSE 5515NE or consent of Instructor.

3 hrs

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NURSE 5517 Teaching Strategies in Nursing

Examines principles, issues, techniques, and evaluation methods in teaching nursing. Focuses on the development of a variety of teaching strategies and evaluation methods for didactic and clinical settings. Prerequisites/Co-requisite: NURSE 5515NE or consent of instructor.

3 hrs

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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.

3 hrs

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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

3 hrs

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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

3 hrs

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NURSE 5530 A 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.

1 hr

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NURSE 5530 B 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

1 hr

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NURSE 5530 C 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

1 hr

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NURSE 5547 A 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. The course builds on basic health assessment skills and emphasizes utilizing advanced assessment skills, lab work interpretation, validation, documentation and analysis of assessment findings. This course consists of 3 hours lecture/discussion and 1 hour of clinical/lab credit (75 clock hours). Prerequisites: Free-standing Health Assessment Course.

4 hrs

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NURSE 5547 C 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 assessment 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.

4 hrs

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NURSE 5547 F 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. The course builds on basic health assessment skills and emphasizes utilizing advanced assessment skills, lab work interpretation, validation, documentation and analysis of assessment findings. This course consists of 3 hours lecture/discussion and 1 hour of clinical/lab credit (75 clock hours). Prerequisites: Free-standing Health Assessment Course.

4 hrs

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NURSE 5547 N 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

3 hrs

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NURSE 5547 NE 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 lecture/discussion and 1 hour of lab credit (45 contact hours). Prerequisite: NURSE 401 or equivalent, NURSE 5548

3 hrs

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NURSE 5547 PM 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.

2 hrs

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NURSE 5547 W 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. The course builds on basic health assessment skills and emphasizes utilizing advanced assessment skills, lab work interpretation, validation, documentation and analysis of assessment findings. This course consists of 3 hours lecture/discussion and 1 hour of clinical/lab credit (75 clock hours). Prerequisites: Free-standing Health Assessment Course.

4 hrs

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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.

3 hrs

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NURSE 5548 C 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.. Prerequisite: Admission to the PNP program or permission of the instructor.

3 hrs

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NURSE 5548 N 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 pathophysiological 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

3 hrs

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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 5548

3 hrs

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NURSE 5549 C 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.

3 hrs

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NURSE 5549 N 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.

3 hrs

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NURSE 5550 Theoretical Foundations In Nursing

This course focuses on critical analysis of theory and the utilization of various levels of nursing and nursing 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 the scientific body of nursing knowledge. Methods by which knowledge is gained and validated will be analyzed. 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: Admission to the MSN or PhD Program

3 hrs

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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

3 hrs

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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).

3 hrs

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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.

3 hrs

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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

3 hrs

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NURSE 5564 A 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 3 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.

5 hrs

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NURSE 5564 C Primary Care of Children I

This course is designed to prepare nurse practitioner students to manage common pediatric health problems. 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 4 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.

6 hrs

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NURSE 5564 F 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 5549, NURSE 5555

5 hrs

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NURSE 5564 N 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

3 hrs

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NURSE 5564 NE Clinical for Nurse Educators

This clinical course provides students an opportunity to develop advanced knowledge and clinical skills in a selected practice setting. Clinical practice hours will be spent in a variety of settings. The students demonstrate their clinical development by evaluating the process of nursing care (assessment, intervention/management, evaluation) from an evidence-based perspective. The course will include two hours of didactic and three hours of clinical practice. Prerequisites: All courses except NURSE 5572 and 5598/5599

5 hrs

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NURSE 5564 PW 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 in women, 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 effect their lives and their health status. Concepts, theories and research related to health promotion, health maintenance and restoration and the prevention of illness and injury of epidemiologically significant problems and potential problems will be addressed. Through clinical experiences, students will integrate concepts of wellness and health promotion, illness prevention, and collaboration, as well as nursing and medical therapeutic modalities, to provide care to women in a comprehensive, interdisciplinary fashion. Core content: differential diagnosis; theories: stress/ adaption and crisis; therapeutic relationships; and advanced nursing skills. This course will consist of 2-3 credit hours of lecture/seminar plus 2 credit hours (165 clock hours) of clinical practice. Prerequisites: NURSE 5547W, NURSE 5548, NURESE 5550 Co-requisite: NURSE 5549

5 hrs

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NURSE 5566 A 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 NP's in various health care setting. Emphasis is given to those chronic health issues most commonly encountered by adult NP's. 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

4 hrs

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NURSE 5566 C 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

4 hrs

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NURSE 5566 F Primary Care of Families III

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 course consists of two hours of didactic / discussion per week and 165 (2 credit hours) of clinical/lab per semester. Prerequisites: NURSE 5549 and NURSE 5564F

4 hrs

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NURSE 5566 N 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

3 hrs

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NURSE 5566 W Care Of The Childbearing Woman

This course will focus on normal adaptation and pathologic alterations throughout the childbearing period. Emphasis is placed on caring for women and families from preconception through the puerperium. Concepts, theories and research related to the biopsychosocial and cultural aspects of childbearing will be addressed. Utilization of models and theories that guide advanced nursing practice will be the organizing framework for the course. Core concepts include adaptation, stress and coping, grief and loss, pain and symptoms management. This course will consist of 2 credit hours of lecture/seminar plus 2 credit hours of clinical practice. Prerequisite: NURSE 5564PW -Primary Health Care of Women or Equivalent

4 hrs

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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 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.

5 hrs

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NURSE 5572 II Preceptorship II

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 preceptorship 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

5 hrs

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NURSE 5572 NA 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.

3 hrs

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NURSE 5572 NE 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 group conference every other week. Prerequisites: All courses except NURSE 5598 / NURSE 5599.

3 hrs

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NURSE 5572 NI 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 5572NII, 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

5 hrs

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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

3 hrs

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NURSE 5597 A 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.

1-6 hrs

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NURSE 5597 B 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.

1-6 hrs

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NURSE 5597 Independent Study In Nursing

1-6 hrs

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NURSE 5597 EC Independent Study In Nursing

1-6 hrs

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NURSE 5597 IH Independent Study In Nursing/Patient Care-Equivalent**1-6 hrs**[back to top](#)**NURSE 5597 Independent Study in Nursing****1-6 hrs**[back to top](#)**NURSE 5597 Independent Study in Nursing****1-6 hrs**[back to top](#)**NURSE 5597 Independent Study Nursing****1-6 hrs**[back to top](#)**NURSE 5597 PP Independent Study In Nursing****1-6 hrs**[back to top](#)**NURSE 5597 RA Independent Study In Nursing****1-6 hrs**[back to top](#)**NURSE 5598 Directed Research**

Individual research project for students to utilize beginning research skills in designing and conducting independent studies under the direction of the faculty. Prerequisites: NURSE 550, NURSE 555 and permission of faculty.

1-6 hrs[back to top](#)**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.

1-9 hrs[back to top](#)**NURSE 5602 Healthcare Systems & Leadership**

This course focuses on the DNP as leader within the complex health care industry. An in depth study of the socio-political, economic, cultural and historical background of the American health care system and the system of health professions will form the foundation for exploration of leadership needs and the DNP leadership role. Prerequisites: Admission to the DNP program

3 hrs[back to top](#)

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

2 hrs

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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.

2 hrs

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NURSE 5606 Healthcare Policy & Advocacy

The focus of this course is the integral relationship between health care policy and advocacy as an advanced practice nurse. Prerequisites: Admission into DNP in Nursing program

3 hrs

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NURSE 5608 Theory Development In Nursing 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. Prerequisites: 12 credit hours of master's level coursework, including theory

3 hrs

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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

3 hrs

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NURSE 5611 Healthcare Economics & Quality

This course focuses on the principles of , and complex relationship between cost efficiency and effectiveness and health care quality outcomes. Through out the course, issues regarding the inextricable link between cost and quality within the complex health care environment will be examined and addressed with emphasis on DNP nurse intervention and leadership. Prerequisites: NURSE 5602 Healthcare Systems and Leadership

3 hrs

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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)

3 hrs

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NURSE 5613 Application of Evidence-based Practice

This course is designed to provide an analytic and systematic approach to evaluate evidence based on research used in clinical practice. The course builds on methods of evidence based practice, theoretical foundations, and statistical analysis. Prerequisite: NURSE 5602, 5606, 5608

3 hrs

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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.

2 hrs

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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 that will improve or enhance clinical expertise. It allows the student to investigate specific procedures, skills, or clinical knowledge that will be later utilized in the DNP practicum course. Prerequisite: NURSE 5572 Advanced Nursing Practice IV: Synthesis or by consent of instructor.

5 hrs

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NURSE 5622 Statistics II

This graduate statistic on-line course is designed to provide a conceptual understanding of the statistical procedures with: advanced multiple regression; moderators and mediators in multiple regression; path analysis; MANCOVA; MANOVA; cluster analysis; and canonical correlation. Prerequisite: NURSE 5612

3 hrs

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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 and is reviewed and evaluated by an academic committee" (DNP essentials, pg20). Prerequisite: NURSE 5613 - Application to evidence-based Practice

5 hrs

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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

3 hrs

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NURSE 5631 Health Promotion & Protection

This course is a guided, in-depth exploration, analysis and evaluation of selected health promotion and protection literature. Other nursing literature will be reviewed as appropriate. Prerequisites: Admission into PhD in Nursing program or permission of instructor.

3 hrs

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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

3 hrs

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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.

3 hrs

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NURSE 5664 Concepts & Approaches of Epidemiology & Statistics in Research

This course introduces principles, concepts, and application of epidemiological and statistical methods in research. First part of the course will cover understanding the epidemiological principle & concepts, measuring the occurrence of disease, measures of disease association, types of study designs, interpretation and evaluation of epidemiologic research. Second part will provides hands on experience for students on developing skills to analyze research data using appropriate statistical methods by means of statistical software to calculate the measures 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. Students will learn to analyze and interpret the output of these analyses using Statistical Package for the Social Science (SPSS) and STATA. Prerequisites: NURSE 5612 or prior approval from course instructor.

3 hrs

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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.

3 hrs

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NURSE 5668 Quantitative Research

Quantitative reserach 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.

3 hrs

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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.

3 hrs

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NURSE 5697 A 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

1-6 hrs

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NURSE 5697 Special Topics Nursing

1-6 hrs

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NURSE 5697 B 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

1-6 hrs

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NURSE 5697 Special Topics Nursing

1-6 hrs

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NURSE 5697 Special Topics Nursing

1-6 hrs

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NURSE 5697 RD Special Topics Nursing

1-6 hrs

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NURSE 5697 Special Topics Nursing

1-6 hrs

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NURSE 5699 Dissertation Research

Individual directed research leading to preparation and completion of doctoral dissertation.

1-12 hrs

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NURSE 5899 Required Graduate Enrollment

1 hr

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School of Pharmacy Courses Pharmacy

PHARM 5507 Basic Pharmacology

Basic pharmacological concepts and important classes of pharmacologic agents. Prerequisites: Human anatomy, physiology and biochemistry. Fall, each year.

3 hrs

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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.

3 hrs

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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.

3 hrs

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PHARM 5519 Pharmacology I

Pharmacology of medicinals with emphasis on basic concepts, the autonomic nervous system, and cardiovascular agents. Four hours lecture per week. Prerequisite: Human anatomy, physiology and biochemistry. Offered: Fall.

4 hrs

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PHARM 5520 Pharmacology II

Pharmacology of medicinals with emphasis on chemotherapeutic agents, drugs acting on the renal system, and drugs for endocrine disorders. Four hours lecture per week. Prerequisite: PHARM 519. Offered: Winter.

5 hrs

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PHARM 5521 Advanced Organic Medicinal Chemistry

Chemistry, physiochemical properties, mechanism of action and structure-activity relationships of organic drug molecules. Fall, odd years.

3 hrs

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PHARM 5527 Analytical Methods

A detailed study of the methods used to detect, identify, and quantitate drugs, small molecules, enzymes, proteins, and biological molecules. The statistical foundation, core concepts, and practical implementation of analytical methods are areas of emphasis. State-of-the-art instrumentation and recent technological developments are also presented, including biotechnology based methods such as proteomics methods and quantitative PCR. Prerequisites: Two hours of lecture and three hour demonstration/laboratory a week. Offered: Fall

3 hrs

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PHARM 5531 Physical Pharmacy Equilibria

Advanced principles of aqueous solutions, acid-base equilibria, solubility and complexation. Mathematical solutions and state-of-the-art research applications. Three hours lecture a week. Prerequisite: B.S. in Pharmacy Permissions of instructor. Winter, even years.

3 hrs

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PHARM 5533 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 PHARM 7303 (PK for Pharm.D. students); MATH 345 (Ordinary Differential Equations) or equivalent is highly recommended. Fall, even years.

3 hrs

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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.

3 hrs

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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

3 hrs

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PHARM 5580 A 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.

1 hr

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PHARM 5580 C 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.

1 hr

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PHARM 5590 A Special Topics Pharmacy

1-3 hrs

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PHARM 5590 B Special Topics Pharmaceutical Chemistry

1-3 hrs

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PHARM 5599 A Research And Thesis Pharmacy

1-9 hrs

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PHARM 5599 B Research And Thesis Pharmaceutical Chemistry

1-9 hrs

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PHARM 5599 C Research And Thesis Pharmacology

1-9 hrs

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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.

3 hrs

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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.

3 hrs

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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.*

3 hrs

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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.*

3 hrs

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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.*

3 hrs

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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 mucosae. 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.

3 hrs

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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 PHARM 519/ 520. Offered: Every other Winter Other: When we have enough students willing to take course on demand.

3 hrs

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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

3 hrs

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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.

3 hrs

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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.

3 hrs

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PHARM 5690 B Special Topics Pharmaceutical Chemistry

1-3 hrs

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PHARM 5690 BB Special Topics Toxicology

1-3 hrs

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PHARM 5690 C Special Topics Pharmacology

1-3 hrs

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PHARM 5699 A Research And Dissertation - Pharmacy

1-16 hrs

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PHARM 5699 B Research And Dissertation Pharmaceutical Chemistry

1-16 hrs

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PHARM 5699 BB Research And Dissertation Toxicology

1-16 hrs

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PHARM 5699 C Research And Dissertation Pharmacology

1-16 hrs

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PHARM 5899 Required Graduate Enrollment

1 hr

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