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UMKC Undergraduate Catalog

General Information
This comprehensive catalog covers all the academic programs at this institution. Prospective students should be aware that the University reserves the right to make changes in admission requirements, fees and other specifications in the catalog.

Students are expected to become thoroughly familiar with the contents of this catalog and to comply with the provisions pertaining to them.

All statements in this publication are announcements of present policies and are subject to change at any time without prior notice. They are not to be regarded as offers to contract.

Telephone Numbers
In many places within this catalog, the direct office telephone number is listed. If a number can be dialed on campus, the last four digits of the number are in bold-faced type. UMKC offices and departments also 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)

NCA Accreditation
The Higher Education Reauthorization Act, revised in 1992, requires UMKC to list the address and phone number for the North Central Association of Schools and Colleges. NCA is the primary accrediting body for U.S. colleges and universities.

North Central Association of Schools and Colleges
Higher Learning Commission
39 North LaSalle St.
Suite 2400
Chicago, Ill. 60602-2504
(800) 621-7440

UMKC Online Catalogs
The text of the 2004-05 Undergraduate Catalog is available in an electronic version. To access the online version, you’ll need browsing software, such as Netscape or Explorer. The address is http://www.umkc.edu/catalog.

The online version and the printed version of the Undergraduate Catalog should mirror each other. Due to the University’s complexity, however, there can be information that has been updated after the printing date. Always consult the Office of Admissions for the most current information concerning rules, policies, fees, and admission requirements.

You may reach the Admissions office at (816) 235-1111 or admit@umkc.edu. You’ll find the Web site at http://www.umkc.edu/admit.

Statement of Human Rights
The Board of Curators and the University of Missouri-Kansas City are committed to the policy of equal opportunity on the basis of race, color, religion, sex, sexual orientation, national origin, age, disability and status as a Vietnam era veteran. This policy pertains to educational programs, admissions, activities and employment practices. Pursuant to and in addition to this policy, the University abides by the requirements of The Americans With Disabilities Act, Title VI and VII of the Civil Rights Act of 1964, Revised Order No. 4, Executive Orders 11246 and 11375; Sections 799A and 845 of the Public Health Service Act; Title IX of the Education Amendments of 1972; Sections 503 and 504 of the Rehabilitation Act of 1973; Section 402 of the Vietnam Era Veterans’ Readjustment Act of 1974; and other federal regulations and pertinent acts of Congress.

The Director of Equal Opportunity/Affirmative Action is responsible for all relevant programs and may be contacted at 223 Administrative Center.

Students with disabilities should be aware that problems pertaining to them may be addressed by the Office of Services for Students with Disabilities (LL23, University Center). The telephone number is (816) 235-5696. Office hours are 8 a.m. to 5 p.m., Monday through Friday.

Student’s Right-To-Know
In accordance with Public Law 101-542, UMKC reports 78 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 213, 4825 Troost Building or via the Web site: http://www.umkc.edu/police.

Notice of Nondiscrimination
Applicants for admission and employment, students, parents of elementary and secondary school students, employees, sources of referral of 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, creed, sex, sexual orientation, age, national origin, disability or Vietnam era veterans’ status in admission or access to, or treatment or employment in, its programs and activities.

Any person having inquiries concerning this institution’s compliance with the regulations implementing The Americans With Disabilities Act, Title VI, Title IX or Section 504, should contact the Office of Equal Opportunity/Affirmative Action, which is located in the Administrative Center at 5115 Oak St.

The Office of Equal Opportunity/Affirmative Action at the University of Missouri-Kansas City has been designated to coordinate the institution’s efforts to comply with the regulations implementing Title VI, Title IX and Section 504. Any person may also contact the assistant secretary for civil rights, U.S. Department of Education or the Department of Justice, regarding the institution’s compliance with the regulations implementing Title VI, Title IX Section 504, and the Americans with Disabilities Act.

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.

University of Missouri-Kansas City: Vision, Mission, Values
The University of Missouri-Kansas City provides instruction, research and community service. It is the only university in western Missouri offering graduate and professional study at the highest academic level. UMKC’s mission focuses on three areas: visual and performing arts, health sciences, and urban affairs (academic programs such as law, business and education, which are important to urban communities). In full alignment with its vision, UMKC is a strong partner with the Kansas City community, active in the region’s economic and cultural development.

UMKC 2006: Our Emerging Future
Our Vision
“UMKC: A community of learners making the world a better place”
We are creating new standards for higher education.

- Academic Excellence
- Campus Without Borders
- Unleashing Human Potential

We manifest our vision through our mission, which cover the following areas:

- Lead in Life and Health Sciences.
- Deepen and Expand Strength in the Visual and Performing Arts.
- Develop a Professional Workforce Through Collaboration in Urban Issues and Education.
- Create a Vibrant Learning and Campus Life Experience.

Our vision and mission allow us to live our values:

Education First
We are committed to life-long learning, and we recognize students are integral to everything we do.

Discovery and Innovation
We promote creativity, critical thinking and interdisciplinary cooperation; we promote scholarship in all its forms; we promote research and sharing of knowledge, and we recognize and reward excellence.

Integrity and Accountability
We encourage free, honest and candid communication; we accept individual responsibility for shared ownership; we are committed to sharing both information and decision-making, and we foster academic and intellectual freedom.

Diversity, Inclusiveness and Respect
We seek, support and celebrate the diversity of all people; we respect individual dignity, and we are sensitive to differences in learning styles, ideas and beliefs.

Energized Collaborative Communities
We nurture positive, visionary, empowering environments, and we collaborate, partner and interact.

Our Vision, Mission and Values Help Achieve Our Goals
In 2006, we are a national leader in scholarship and creative activity
Our faculty and staff are widely known both locally and nationally for providing intellectual, scientific, artistic, and administrative management leadership and breakthrough results. We are the authors and creators of a community of learners committed to producing new scholarly and creative initiatives and outcomes.

- Sponsored program awards reach $60 million of which $40 million is in federal support.
- Ten academic programs are ranked by national standards in the top ten.
- Five academic support programs are ranked by national standards in the top ten.

In 2006, we attract, nurture and develop responsible community leaders
Students enroll at UMKC because of the intellectually stimulating academic environment, the vibrant and diverse campus life, and the interaction with and in the community. Graduates leave able and committed to making a difference in their families, workplaces, communities, organizations and society at large. This is reflected most immediately in the greater Kansas City area as well as the state of Missouri, the primary beneficiaries of our citizen-leaders.

- Enrollment management and diversity-in-action project goals are achieved, which include ranking among the top universities in graduating students of color and first generation college students.
- 80% of students and recent alumni say they are satisfied with their UMKC experience.
- 85% of businesses/organizations who employ/engage UMKC alumni say UMKC graduates are citizen-leaders.

In 2006, we are an essential community partner and resource
UMKC is Kansas City’s university and is essential to the success and quality of life in our metropolitan Kansas City region. Our faculty and staff help solve community problems and enrich community life with their research, expertise and talent; our students learn from and serve with the community; and our university community serves our broader community as leaders and volunteers.

- 90% of community leadership says UMKC is one of the top 5 community assets.
- 50% of UMKC faculty, students and staff, respectively, engage in public scholarship, community-based or service learning, or community service.

In 2006, we are a workplace of choice
Faculty and staff see themselves and their work as valued, making a difference, and a source of their own growth, development and possibilities. A strong demand to join UMKC exists because of these opportunities.

- 80% of employees say they enjoy working at UMKC, as indicated by a rating of 4 or higher on a scale of 1 to 5 on the workplace survey.
- 50% of our applicants cite our vision and values as one of their primary reasons for applying.
- The goals of the diversity-in-action project are achieved.
In 2006, we have the resources to fuel our vision
Our resources power transformational change; ensure sustainable excellence; foster creativity and innovation; and unleash human potential to realize UMKC's mission, vision, and goals.

- Our composite financial health index is 7.5 on a 10-point scale.
- Our revenue growth and diversification goals for financial freedom are achieved.
- Our resources are allocated to priorities such that our core programs/services have their resource needs fully met and $2 million is available annually for innovation.

UMKC General Administrative Officers

Martha W. Gilliland, Ph.D.
Chancellor

William P. Osborne, Ph.D., P.E.
Interim Provost and Vice Chancellor for Academic Affairs

Larry Gates
Vice Chancellor for Administration and Finance

Patricia Long, Ed.D.
Deputy Chancellor for University Communications and Vice Chancellor for Student Affairs and Enrollment Management

William French, M.A.
Vice Chancellor for University Advancement

UMKC Academic Deans and Directors

Bryan F. LeBeau, Ph.D.
Dean, College of Arts and Sciences

Lawrence A. Dreyfus, Ph.D.
Dean, School of Biological Sciences

O. Homer Erekson, Ph.D.
Dean, Henry W. Bloch School of Business and Public Administration

Khosrow Sohraby, Ph.D.
Interim Dean, School of Computing and Engineering

Michael J. Reed, Ph.D.
Dean, School of Dentistry

Linda L. Edwards, Ed.D.
Interim Dean, School of Education

Ronald A. MacQuarrie, Ph.D.
Vice Provost, Research, and Dean, School of Graduate Studies

Jeffrey B. Berman, J.D.
Interim Dean, School of Law

Betty M. Drees, M.D.
Dean, School of Medicine

Randall G. Pembroke, D.M.A.
Dean, Conservatory of Music

Lora Lacey-Haun, Ph.D.
Dean, School of Nursing

Robert W. Piepho, Ph.D.
Dean, School of Pharmacy

Joan F. Dean, Ph.D.
Interim Dean and Director, University Libraries

History of UMKC

The University of Missouri-Kansas City was spawned by a city built at the origin of the Oregon and Santa Fe trails. These roadways to the west began at Old Westport, just a few miles from the present UMKC campus.

In the 1890s, there was talk of founding a university in Kansas City because of the city’s growth, but it was not until the 1920s that talk turned to action. In the postwar decade, the chamber of commerce appointed a committee to consider the possibility of a university in Kansas City. During this time, Lincoln and Lee University also was being established. Named after two leaders of the Civil War (Missouri was a border state), Lincoln and Lee was to be maintained by the Methodist Church. While the plans for the denominational university were being formulated, proponents of a non-political, non-sectarian institution organized and joined a committee that was working for a united university plan. A board of trustees comprising leading businessmen was established and the board proceeded cautiously with its plans.

In 1929, a charter for the University of Kansas City was granted. The dream became a reality when William Volker, a local philanthropist for whom the 93-acre Volker campus is named, presented the board with the 40-acre nucleus of the present campus site in Kansas City's Rockhill district. Volker also provided funds to purchase the former private home of Walter S. Dickey, a wealthy Kansas City manufacturer. The ivy-covered stone mansion, now known as Scofield Hall and situated in the center of the campus, was the fledgling university’s first main building.

With a charter and a campus site, the Board of Trustees started a citywide drive for funds. Raising a large endowment in the middle of the Great Depression seemed an impossible goal, but the board persisted, encouraged by the fact that many universities had started with one building, no larger than the handsome Dickey mansion. In 1933, the University of Kansas City announced that classes would begin in October. The board had decided that if 125 students who were qualified to enter either the University of Missouri or the University of Kansas applied to the University of Kansas City, it would mean there were a sufficient number of students in Kansas City who wanted an education at home and the University would go into operation. A faculty of 17 was hired, and on Oct. 2, 1933, 264 students were enrolled. The University of Kansas City, a private, independent university, had begun.

The Dickey mansion, called the Administration Building and eventually named Scofield Hall for a former chancellor, had been prepared for classes. For several years it housed all the University classrooms, the library, a cafeteria, and the business and administrative offices. Only two years of coursework were offered during the first year, but soon the third and fourth years of classes were added. On June 9, 1936, Duncan Spaeth, president-elect, gave the first commencement address to an audience that included 80 graduates.

By this time the University had begun to grow. The geology-physics building was completed in 1935, and the University library was scheduled for completion in 1936. In the eventful decades since the opening, the University has developed rapidly and gained strength. Impetus for growth was provided by the affiliation of several professional schools with the University, which added to the prestige already established by a strong College of Arts and Sciences.

The first was the Kansas City School of Law, which merged with the University in 1938. That was followed by the Kansas City-Western Dental College in 1941 and the Kansas City College of Pharmacy in 1943. The Conservatory of Music joined the University in 1959. Also during this period, the School of Administration (1953), the School of Education (1954), the Division for Continuing Education (1958), the School of Graduate Studies (1964), the School of Medicine (1970) and the School of Nursing (1980) were established. The School of Basic Life Sciences was created in 1985, and was renamed the School of Biological Sciences in the 1990s.

On July 25, 1963, the University of Kansas City became a part of the University of Missouri System, joining three other campuses located in Columbia, Rolla and St. Louis. At that time, the Board of Trustees of the University of Kansas City...
transferred assets estimated at $20 million to the Board of Curators of the University of Missouri.

The University’s name was changed to University of Missouri-Kansas City and since 1963, the Kansas City campus has experienced steady growth while expanding on urban connections. By fall 2002, the total number of students taking classes at UM KC was more than 13,800 students.

In addition to the Volker campus, UM KC operates the Hospital Hill campus, located in midtown Kansas City, Mo. This campus is adjacent to Truman Medical Center, UM KC’s primary public teaching hospital, and is home to the UM KC School of Medicine, School of Dentistry, the School of Nursing, and the Institute of Human Development. A Health Sciences building to be constructed on the Hospital Hill campus is to be the future home of the schools of pharmacy and nursing.

From 1974 to 1997, UM KC operated the Truman Campus, home to the University’s Coordinated Engineering Programs until 1994, when engineering programs moved to temporary quarters while awaiting completion of Flarsheim Hall. The Truman Campus was leased to the Independence, Mo., school district.

Many offices for UM KC’s student services moved to expanded space in the Administrative Center at 5115 Oak in the late 1990s. In addition, major renovations were completed during 1997-98, including the Residence Hall, Haag Hall, Newcomb Hall and Royall Hall. In fall 1999, the Robert H. Flarsheim Science and Technology Hall opened on the Volker campus. Flarsheim Hall is the largest campus building, encompassing labs, classrooms and faculty offices in a five-story building named for Robert H. Flarsheim, a longtime UM KC friend and neighbor. His estate gift of $8.7 million was the largest ever by an individual.

One element of UM KC’s strategic planning is to increase opportunities for students living on campus, particularly undergraduates. With that goal in mind, UM KC purchased the Twin Oaks apartments, a 600 unit, 11-story complex located on the west side of Oak Street, between 50th and 51st streets. In 2004, a second Residence Hall will open on the Volker Campus, adding 550 living units using a “suite-style” arrangement. The on-campus living areas provide easy access to area coffee houses and eateries, parks and museums, and the Country Club Plaza shopping and restaurant district.

Another endeavor is UM KC Northland, seeking to bring graduate degree programs to the northland areas of Kansas City. UM KC Northland, housed at the Metro North Mall, offers graduate degree programs on evenings and weekends. Initial offerings include M.A. and Ed.S. degrees from the School of Education. In partnership with area organizations, UM KC also will offer continuing professional education and professional development programs at the Northland site.

On April 1, 2000, following a national search, Martha W. Gilliland became UM KC chancellor. Since then, she has led a campuswide effort to articulate a UM KC vision of “a community of learners making the world a better place” that will “create new standards in higher education” by way of emphases in academic excellence, as a campus without borders and unleashing human potential.

In 2001, the University launched a new school, the School of Interdisciplinary Computing and Engineering, now called the School of Computing and Engineering. It combined the computer science telecommunications program and the engineering program previously offered, and will allow new degree offerings that will take advantage of emerging technologies in the 21st century.
basic mission depends upon a sound general education program at the baccalaureate level. The University has well-defined admission requirements, which ensure a high probability of academic success for its students.

As the state’s only public, doctoral-granting, research institution, the University has a major commitment to research, scholarly work and creativity. The University emphasizes graduate and professional programs, and, as a land-grant institution, the University selectively extends the results of its research throughout the state.

The University is committed to the principles of academic freedom, equal opportunity, diversity and to protecting the search for truth and its open expression. These commitments are indispensable to the fulfillment of the University’s missions.

The University is governed by a bi-partisan Board of Curators as established by the State Constitution. In all areas, the Board welcomes advice from all those in the University community and seeks specific advice on matters concerning academic issues. The Board delegates the management of the University to the President and Chancellors of the institution. The President and the Chancellors seek advice from others within the University community in the day-to-day management of the institution.

The University was established by the citizens to serve Missouri, but the benefits of its programs and graduates extend to the nation and the world.

The Seal
The following is a description of the official University of Missouri seal, which was adopted on March 31, 1903: Gules, the white or grizzly bear of Missouri, passant guardant proper, on a chief engrailed azure, a crescent argent; impaling argent, the arms of the United States of America; on a chief parted per bend or and sable an open book proper with words “Salus Populi,” all within a band inscribed “Sigill Universitatis Missourien MDCCCXXXIX.”

Interpretation of Design and Color of University Seal
Gules-Red to denote courage, represented on printed shields by straight perpendicular lines closely drawn together.

The white grizzly bear of Missouri, passant guardant proper- The bear appears to be walking leisurely with its face turned toward the spectator. It is represented in its natural color. On a chief engrailed azure, crescent argent - On the upper one-third of the shield, separated from the lower two-thirds by a curved division line on a sky-blue background, appears a new moon in white.

Impaling argent, the arms of the United States of America - On a white background appear the arms of the United States of America.

On a chief parted per bend or and sable an open book proper with the words “Salus Populi” - On the upper third of the shield, which is itself divided from the upper third of the right side to the lower corner of the left side, and which may have horizontal and vertical lines crossing each other, appears an open book in the original color with the words “Salus Populi.”

The motto “Salus Populi” means “the welfare of the people.”

The Flag
The flag of the University of Missouri was adopted in 1968. It is divided diagonally; the top half (upper right) is old gold and the bottom (lower left) is royal blue. The official seal of the University of Missouri is located in the center of the flag.
General Program Information

General Program Information and Accreditation

Program Accreditation
The University of Missouri-Kansas City is accredited by, is affiliated with or holds membership in the organizations listed below:

- Accreditation Board of Engineering and Technology (1977)
- American Assembly of Collegiate Schools of Business (1969)
- American Association of Dental Schools (1942)
- American Association of Colleges of Pharmacy (1945)
- American Association of University Women (1959)
- American Association of Colleges for Teacher Education (1960)
- American Bar Association (1938)
- American Chemical Society (1957)
- American Council on Education (1945)
- American Council on Pharmaceutical Education (1945)
- American Psychological Association
- Association of American Colleges and Universities (AAC&U)
- Association of American Law Schools (1938)
- Association of University Evenings Colleges (1955)
- The Central Exchange
- The Civic Council of Greater Kansas City
- Commission on Accreditation of Dental and Dental Auxiliary Educational Programs of the American Dental Association (1927)
- Council of Graduate Schools (1967)
- Fulbright Associates
- Great Cities Universities
- The Greater Kansas City Chamber of Commerce
- International Relations Council
- International Women's Forum
- Kansas City Area Development Council
- Kansas City Area Life Sciences Institute
- Liaison Committee of Medical Education of the American Medical Association and Association of American Medical Colleges (1971)
- National Association of Schools of Music (1938)
- National Association of Schools of Public Affairs and Administration (1980)
- National Association of Schools of Theater (1970)
- National Association of State Universities and Land Grant Colleges (NASULGC)
- National Collegiate Athletic Association (1987)
- National Council for Accreditation of Teacher Education (1961)
- Commission on Collegiate Nursing Education (2000)
- North Central Association of Colleges and Secondary Schools (1938)

Undergraduate Programs
Degree programs (majors) are listed in capital letters. The actual degrees to be earned bachelor’s, master’s, etc., are shown in parentheses, followed by emphasis areas for the degree program.

- ACCOUNTING (B.S.)
- AMERICAN STUDIES (B.A.)
- ARCHITECTURAL STUDIES (B.A. 5-year degree, KSU) Joint Program with Kansas State
- ART (B.A.)
- ART HISTORY (B.A.)
- BIOLOGY (B.A., B.S.)
- Bioinformatics
- Cellular and Molecular Basis of Health and Disease
- BUSINESS ADMINISTRATION (B.B.A.)
- Finance
- CHEMISTRY (B.A., B.S.)
- CIVIL ENGINEERING (B.S.C.E.)
- COMMUNICATION STUDIES (B.A.)
- Mass Communication (B.A.)
- Speech Communication (B.A.)
- COMPUTER SCIENCE (B.A., B.S.)
- Bioinformatics (B.S.)
- CRIMINAL JUSTICE AND CRININOLOGY (B.A.)
- DANCE (B.F.A.)
- DENTAL HYGIENE (B.S.D.H.)
- ECONOMICS (B.A.)
- ELECTRICAL AND COMPUTER ENGINEERING (B.S.)
- ELEMENTARY EDUCATION (B.A.)
- ENGLISH (B.A.)
- Creative Writing (B.A.)
- Secondary English Education (B.A.)
- ENVIRONMENTAL STUDIES (B.A., B.S.)
- FRENCH (B.A.)
- GEOGRAPHY (B.A., B.S.)
- GEOLOGY (B.S., B.A.)
- GERMAN (B.A.)
- HISTORY (B.A.)
- INFORMATION TECHNOLOGY (B.I.T.)
- LIBERAL ARTS (B.L.A.)
- MATHEMATICS AND STATISTICS (B.A., B.S.)
- MECHANICAL ENGINEERING (B.S.M.E.)
- MEDICAL TECHNOLOGY (B.S.)
- MIDDLE SCHOOL EDUCATION (B.A.)
- MUSIC (B.A.)
- Music Therapy (B.A.)
- MUSIC COMPOSITION (B.M.)
- MUSIC EDUCATION (B.M.E.)
- Choral (B.M.E.)
- Instrumental (B.M.E.)
- Choral and Instrumental (B.M.E.)
- Music Therapy (B.M.E.)
- MUSIC THEORY (B.M.)
- NURSING (B.S.N., R.N.-B.S.N./M.S.N.)
- PERFORMANCE (B.M.)
- General (B.M.)
- Accordion (B.M.)
- Bassoon (B.M.)
- Cello (B.M.)
- Clarinet (B.M.)
- Euphonium (B.M.)
- Flute (B.M.)
- Guitar (B.M.)
- Horn (B.M.)
- Jazz and Studio Music (B.M.)
- Oboe (B.M.)
- Organ (B.M.)
- Percussion (B.M.)
- Piano (B.M.)
- Piano Pedagogy (B.M.)
- Saxophone (B.M.)
- String Bass (B.M.)
- Trombone (B.M.)
- Trumpet (B.M.)
- Tuba (B.M.)
- Viola (B.M.)
- Violin (B.M.)
- Voice (B.M.)
- PHARMACEUTICAL SCIENCE (B.S.)
- PHARMACY (Pharm.D.)
- PHILOSOPHY (B.A.)
• PHYSICS (B.A., B.S.)
• POLITICAL SCIENCE (B.A.)
• PSYCHOLOGY (B.A.)
• SECONDARY EDUCATION (B.A.)
  Art (B.A.)
  English (B.A.)
  Foreign Languages (B.A.)
  Mathematics (B.A.)
  Music (B.A.)
  Natural Science (B.A.)
  Social Science (B.A.)
• SOCIOLOGY (B.A.)
  Anthropology (B.A.)
  Deviant Behavior (B.A.)
  Life Course (B.A.)
  Urban Sociology (B.A.)
• SPANISH (B.A.)
• STUDIO ART (B.A.)
  Graphic Design/Photography (B.A.)
• THEATER (B.A.)
• URBAN AFFAIRS (B.A.)
• URBAN PLANNING AND DESIGN (B.A.)
General Undergraduate Admissions Policies and 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
120 AC
5100 Rockhill Road
Kansas City, MO 64110-2499

Director of Admissions:
Jennifer DeHaemers
Associate Director/Admissions:
Doretta Sims Smith
Assistant Directors/Admissions:
Joan L. Belt
Arlene S. Smith
Richard H. Bigham

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:

<table>
<thead>
<tr>
<th>HSCRP</th>
<th>ACT Composite Standard Score</th>
<th>SAT V &amp; M Standard Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>94 and above</td>
<td>17</td>
<td>800-830</td>
</tr>
<tr>
<td>86-93</td>
<td>18</td>
<td>840-880</td>
</tr>
<tr>
<td>78-85</td>
<td>19</td>
<td>890-920</td>
</tr>
<tr>
<td>69-77</td>
<td>20</td>
<td>930-960</td>
</tr>
<tr>
<td>62-68</td>
<td>21</td>
<td>970-1000</td>
</tr>
<tr>
<td>54-61</td>
<td>22</td>
<td>1010-1040</td>
</tr>
<tr>
<td>48-53</td>
<td>23</td>
<td>1050-1090</td>
</tr>
<tr>
<td>47 and below</td>
<td>24</td>
<td>1100 or higher</td>
</tr>
</tbody>
</table>

Admitted students are expected to have followed a college-preparatory curriculum that includes at least 17 units of credit (with each unit equating 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. This requirement may be satisfied by completion of courses in middle school, junior high or senior high.

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.

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
Graduates of Missouri high schools 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.

**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.

**Application for Admission**
Qualified students seeking admission must submit:

1. Completed application from http://www.umkc.edu/admissions/idx-0101app.html with nonrefundable $35(domestic) or $50(international) application fee.
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).

**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**
Please 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 addition 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 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. Effective Summer 2002, 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 Appendices section 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 from http://www.umkc.edu/admissions/id-0101app.html 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. Please 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
- **Winter 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.

**Pharm D. Program**
Students interested in applying to the Pharm D. program, should refer to the School of Pharmacy Pharm D. 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 schedule 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. 15 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.

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

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*
- Winter 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 a 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, Maruitus, 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. Please 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.
Forms and Information on the Web Site
Applicants will find additional information and forms on the following Web sites:

- Admission application forms for Undergraduate, Masters, Doctor of Musical Arts and Ph.D. in Counseling Psychology:
  
  http://www.umkc.edu/admissions/idx-0101app.html
- Application forms for other Ph.D. programs:
  
  http://www.umkc.edu/iphd
- Transfer course equivalency tables:
  
  http://www.umkc.edu/registrar and click on Course Equivalency
- Scholarships for non-U.S. citizens:
  
  http://www.umkc.edu/isao/scholarships.htm
Academic Regulations and Information

Registration and Records
The Office of Registration and Records (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 Office of Registration and Records, 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.

Academic Calendar/Semester Hours
The University operates on the semester system with the academic year divided into the Fall and Winter (aka Spring) semesters. Fall semesters start in August and end in December. Winter 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, June, 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 academic work. A 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.

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 is classified as a sophomore;
- Fewer than 90 but at least 60 is classified as a junior; and
- At least 90 credit hours completed is classified as a senior.

A student who has completed a bachelors degree and enroll for undergraduate credit will be classified as a senior.

Course Numbering
Courses are numbered according to the following plan:

- **100-299**: Lower-division Courses
- **300-499**: Upper-division Courses (Some upper-division courses may be taken for graduate credit)
- **500-699**: Graduate-level Courses

**Dentistry:**
- **300-499**: Undergraduate Dental Hygiene Courses
- **300-699**: First Professional Courses
- **500-599**: Graduate Dental Hygiene Courses
- **700-799**: Graduate/Advanced Education Courses

**Law:**
- **500-899**

**Medicine:**
- **100-699**

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 Registrar’s Office applies established guidelines and precedents in determining transfer course equivalences 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 Registrar’s 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 (Note: Not all subjects are accepted. Consult the UMKC web page http://www.umkc.edu/registrar/creditbyexam.asp for a list of acceptable tests and scores.) Credit is not given for any CLEP General examination. No CLEP Subject Exam may be taken in the final 30 hours of coursework leading to a degree.

- **Credit by Departmental Examination** may be earned if a student has previous knowledge or proficiency in an area of study and arrangements 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 an Advanced Placement (Credit by 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.
   (a) Writing and Critical Analysis: Students must satisfactorily complete ENGL 110 and 225. In addition, students must pass the Written English Proficiency Test (WEPT) or satisfactorily complete ENGL 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.
   (b) Oral Augmentation/Speech. Students must satisfactorily complete Communication Studies 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:
   • PHIL 210 or 222
   • HIST 201, 202, 206 or 208
   • ANTH 103
   • SOC 103
   • CS 100 or above
   • 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.
   (a) Constitution course chosen from: HIST 101 or HIST 102 or HIST 360R or POLSCI 210
   (b) 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.
   (a) One 3 credit hour course chosen from English, Communication Studies, Foreign Language or Philosophy
   (b) 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 (Adds, Drops, Withdrawals)
Eligible students may register during the registration period which is announced in the class schedule. 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 Registrar’s Office either in person or using an approved electronic format such as the computer or telephone registration systems.

A class schedule is published prior to each semester at http://www.umkc.edu/sched 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 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 must have the approval of the academic unit. (See the appropriate Schedule of Classes/Registration Guide for advising requirements.)

Withdrawals
Students may withdraw from a course at any time between initial registration and the end of the 12th week of classes (fall and winter semesters). Students who are not authorized to self-advise must have the approval of the academic unit. (See the class schedule for advising requirements.) 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). A WF is calculated in the grade-point average the same as a grade of F.

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
If students have failed to fulfill any financial obligations with the University, they may be removed from all coursework and not permitted to be reinstated during that term.

Academic Loads, Full- and Part-Time Status

Normal Academic Load
A normal academic load for undergraduate students during the Fall and Winter 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.

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 Center.

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 Winter 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 Center.

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:

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

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

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 students repeat courses, the hours and grades for the first attempt remain in their GPA calculations. After graduation, if a student repeats a course that was part of a degree earned at UMKC, it will not affect the GPA as of the date of graduation. The appropriate school or College section of the catalog should be consulted on the specific rules for course repeats.

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 and law.

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 the term grade reports and their permanent transcript.

Graduation
Students who anticipate graduating must file an application for graduation before the end of the 4th 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 the UMKC Records Office before the next semester after anticipated graduation begins. Diplomas may be picked up in person in the Records Office beginning 30 days following the last day of the semester. Diplomas that are not picked up in person will be mailed beginning 45 days following the last day of the semester. Replacement and duplicate diplomas can be ordered for a small fee from the UMKC 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 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
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 semester. The dates of the test appear regularly in the class schedule. 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. The application form should be delivered to the UMKC Records Office or to the advising office in the schools of dentistry, law, medicine and pharmacy. The application must be filed no later than the deadline date published each semester in the on-line UMKC Schedule of Classes 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 bachelors degrees with Summa Cum Laude honors. Students in the next 5 percent will be awarded their bachelors degrees with Magna Cum Laude honors and students in the next 10 percent will be awarded their bachelors degrees with Cum Laude honors. MD, DDS, JD 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.

Privacy Rights

UMKC complies with the Family Educational Rights and Privacy Act, which provides guidelines on storage and releasing of student and former student records. Information in student records is considered confidential between the individual and the University, and will not be released to a third party without the written consent of the student. (For a detailed explanation, see Policy on Student Records in the Policy Section of the Appendices.)

Certain information about students and alumni is considered directory information and may be released without a student’s signed written consent unless a written request is made to restrict release of directory information. All students will be listed by name with address, e-mail and telephone
number in a student directory. The request to restrict directory information must be received in the Registrar’s Office by the end of the second week of a semester to be effective for that semester. If release of information is restricted, a student’s name will be excluded from the student directory and no information will be released without written consent except that all students’ names will be printed in the commencement program regardless of the directory information restriction.

Transcripts
Official transcripts are issued only to other educational institutions, employers, state departments of education and similar agencies. Transcripts are issued at the written request or authorization of students. Students may secure a transcript of their UMKC permanent academic records from the UMKC 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.

Contact Information for Registration and Records

Registration and Records
Administrative Center
5115 Oak Street, Room 115
(816) 235-1125: Registration
(816) 235-1123: Records
(816) 444-8008: Touchtone Registration
Fax: (816) 235-5513
registrar@umkc.edu
http://www.umkc.edu/registrar

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

Registrar:
Wilson Berry
AssociateRegistrar:
Christopher S. Meiers
Assistant Registrar:
Timothy E. Sullivan
Fee Information

Information about fees is only for the school year 2004-05. Educational fees are governed by the University of Missouri Board of Curators; therefore, new educational fee schedules cannot be provided until approved by the Board of Curators.

Although the University expressly reserves the right to change any and all fees and other charges at any time without advance notice, UMKC provides current fee information, when approved by the UM Board of Curators, as soon as possible in the online version of the General Catalog (http://www.umkc.edu/catalog), as well as in each term’s class schedule/registration guide. These guides are available from the Registrar’s Office in the Administrative Center, 5115 Oak St., during the registration period for that term.

Fees for coursework vary with the number of hours of enrollment; the student’s undergraduate, graduate or professional school status; the term of enrollment; and the applicability of any special fees.

Student Program/Use Fees

For 2004-05, the Student Program User Fee will be $12.98 for up to 12 credit hours per semester. This fee has four components:

- The Student Activity Fee is $4.01 per credit hour and funds student clubs and organizations as well as a variety of student activities and services.
- The Intercollegiate Athletic Fee is $2.85 per credit hour and supports the UMKC’s men’s and women’s intercollegiate athletic programs.
- The Physical Facilities Fee is $0.61 per credit hour and funds student-related facilities repair and renovation.
- The University Center Fee is $5.51 per credit hour and supports the remodeling and repair of the University Center, as well as day to day operating costs.

The fee for the Associated Students for the University of Missouri will be 15 cents per credit hour for up to 10 credit hours per semester or up to six credit hours in the summer. Further, an Information Technology Fee of $10.60 per credit hour will be assessed.

All students enrolled in an on-campus course will be designated a student fee of $30 for Fall Semester, $30 for Winter Semester and $15 for Summer Session for the multipurpose recreation facility. All students enrolled in an on-campus course will be designated a student fee starting Fall 2003 of $85.00 for the Fall Semester, $85.00 for the Winter Semester and $40.00 for the Summer Session for the new Student Center project. It is pledged to retire the revenue bonds that will be issued to fund construction costs.

A student health fee of $2.22 per credit hour will be assessed. This fee funds the student health and wellness service. For more information about health services for students, please see Counseling, Health and Testing Center, which appears in the Division of Student Affairs section of this catalog.

Non-Resident Tuition Scholarships

Non-resident students who take a part-time credit load of six hours or less during a 16-week term, or three hours or less during an eight-week term, may be eligible to receive a tuition scholarship to offset the non-resident portion of their educational fees. This tuition scholarship is not available to non-resident students taking more than six hours during a 16-week term or more than three hours during an eight-week term. Dropping classes from full-time to six or fewer hours during a 16-week term, or three or fewer hours during an eight-week term, does not make the student eligible for the part-time tuition scholarship.

Non-resident students who had a Missouri income tax liability may be eligible for the Missouri Taxpayers Tuition Scholarship. Application forms and further information can be obtained from the UMKC Cashier’s Office, which is located in the Administrative Center, 5115 Oak, Room 112.

Students who have F-1 or J-1 visas are not eligible for either of the above scholarships.

Non-Resident Educational Fees

Students not residing in Missouri are considered non-residents and pay fees according to the non-resident fee schedule. Information concerning change of residency status may be found in the Residence and Educational Fee Rules.

A copy of this booklet may be obtained from the UMKC Admissions Office in the Administrative Center, 5115 Oak, Room 120.

To have a copy of this booklet mailed to you, send your request to UMKC Admissions Office, 120 Administrative Center, 5100 Rockhill Road, Kansas City, MO 64110-2499.

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. The phone number is 816-235-1111. More information about this program is at http://www.umkc.edu/admissions and http://www.umkc.edu/metrorate.

Partial Hours

Fractional credit hours shall be assessed at the next higher full-hour rate.

Other

For any sessions other than those specified, or for any fee that cannot be calculated on a per-credit-hour basis, the session fee or per-credit-hour fee shall be prorated.

Audited Courses

Courses taken for audit and courses taken for reduced credit will be assessed according to their normal credit value. Students enrolling in a non-credit course are required to pay fees according to the equivalent credit of the course.

Payment of Fees

UMKC offers a minimum payment plan (Optional Minimum Payment Plan) to pay educational fees. The number of payments allowed depends on the date of registration. The plan is similar to the credit-card payment concept. The amount billed must be paid when due. Additional amounts paid do not affect the need to pay the next billed amount.

There is a finance charge of one percent per month on any unpaid balance. Failure to make required payments on a timely basis could result in withdrawal from classes.

All University fees must be paid in full by the deadlines specified in the current term’s Schedule of Classes. Exceptions may be allowed when prior arrangements are made to bill an employer or government agency.

Please refer to the student course catalog applicable for the registered term to find payment dates and options.

Late Payment Fee

Effective with the Winter/Spring Semester of 2004, student accounts will be subject to a late fee of $10.00 when payment is not received by the scheduled due date as communicated on the students Monthly Billing Statement. If the Minimum Payment or Billed Balance Due is paid on or before the scheduled due date, no late fees will apply.
Use of Credit Cards
MasterCard, VISA and Discover charge cards may be used to pay fees. Credit-card payments will not be accepted by telephone, but may be faxed. Students planning to use one of these methods should be aware that no charge will be made against the card without prior approval. This means all charges will be cleared by phone. The time it takes to get approval by phone may result in a possible delay in the student’s registration process.

Advance Deposit on Student Fees
To reserve a position in the professional schools, a newly accepted student must make a deposit toward fees due. This payment will be credited to the student’s educational fee account when enrollment in the program is complete. It is not transferable between professional schools. The deposit amounts are:

- Dental Graduate Program: $500
- Dentistry Four-Year Program: $200
- Dentistry Six-Year Program: $100
- Schools of Medicine, Pharmacy and Law: $100
- Dental Hygiene: $50

The advance deposit is a nonrefundable fee.

Late Registration Fee
Every student who completes registration after 8 a.m. on the first day of classes must pay a late fee. For 2004-05, the late fee will be $35.

Service Charge for Returned Checks
There will be a service charge of $25 for all returned checks. If a check presented to the University for payment of student fees is returned unpaid after 8 a.m. on the first day of classes, the student issuing the check will be considered a late registrant and will be subject to late registration fees, as stated above.

Student Financial Responsibility
It is the responsibility of all students to promptly pay fees and other financial obligations to the University as they become due. The non-payment of any financial obligation may result (at the University’s option) in withdrawal of the student from the University or denial of the student’s readmission for continued enrollment. Such withdrawal does not relieve the student of the financial obligation. Collections will be pursued, including referral to collection agencies and credit bureaus. Outstanding financial obligations may prevent student records from being released.

Interstate Agreements with Kansas and Nebraska for Exchange of Students on Resident Fee Basis
By joint agreement of the Board of Curators of the University of Missouri and the boards of regents of the University of Nebraska and the University of Kansas, qualified students who would be eligible to pay only resident fees at the University of Missouri may enroll in certain programs in Kansas and Nebraska and be charged at the rate paid by students residing in those states. At the same time, qualified students who would be eligible to pay only resident fees in Kansas and Nebraska may enroll in certain programs on one of the campuses of the University of Missouri and be charged fees at the rate paid by Missouri residents.

Refund of Fees
Students leaving school or dropping courses for which they have paid fees will receive, subject to certain exceptions (such as the late registration fee), a refund of fees in accordance with the following schedule. Refunds are initiated through the Registration Office by presenting a petition for change of official program, signed by an authorized representative of the dean’s office, or by written request directly to the Registration Office. The postmark on the envelope of the withdrawal letter is used as the refund date.

A letter requesting cancellation of registration and full refund of fees must be postmarked not later than the day prior to the date UMKC coursework begins for that term.

Class Day of Cancellation, Withdrawal or Change of Course Load

<table>
<thead>
<tr>
<th>16-Week Term</th>
<th>Refund</th>
<th>8-Week Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day 1</td>
<td>100%</td>
<td>Day 1</td>
</tr>
<tr>
<td>Days 2-8</td>
<td>90%</td>
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<tr>
<td>Days 9-20</td>
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<td>Days 21-40</td>
<td>25%</td>
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<tr>
<td>After day 40</td>
<td>0%</td>
<td>After day 20</td>
</tr>
</tbody>
</table>

UMKC will adjust this schedule individually to meet federal regulations.

- Class days are counted from the official first day of class, excluding Saturdays, Sundays and holidays.
- All continuing education credit courses for the duration of the term are subject to this schedule.
- Refunds are computed by the Cashier’s Office prior to checks being drawn. Deductions may be made from the refund for any financial obligations due the University or federally funded financial aid that may require the return of the refund to the program from which it came. Decisions concerning refunds may be appealed, in writing. You may mail your appeal request to the Registrar’s Office, 115 Administrative Center, University of Missouri-Kansas City, 5100 Rockhill Road, Kansas City, MO 64110-2499.

- You may bring your appeal request to the Registrar’s Office, located in the Administrative Center, 5115 Oak.

Housing
The UMKC Department of Residential Life offers three housing options for its students, all conveniently located on the west side of campus near the University Center, Swinney Recreation Center, and within easy walking distance to all Volker campus buildings.

- The 339 bed Residence Hall located at 5030 Cherry offers a traditional-style hall with mandatory food plan.
- The new Oak Street Housing East hall will open fall of 2004 and features suite-style living for 561, also with a mandatory meal plan.
- Twin Oaks Apartments, located at 5000 and 5050 Oak, is a 585-unit twin-towered complex offering studios, one- two- and three-bedroom apartments.

Complete information about each of these facilities is available online at:

http://www.umkc.edu/housing.

Residence Hall Charges
Please refer to http://www.umkc.edu/housing/rates.asp for the complete lists of prices for the three residential facilities. For further information concerning housing at UMKC please contact:

UMKC Office of Residential Life
107 North Twin Oaks Building
5000 Oak Street
Kansas City, MO 64112
(816) 235-8840

Our mailing address:

University of Missouri-Kansas City
Residential Life
5100 Rockhill Road
Kansas City, MO 64110-2499
Off-Campus Housing Service
A housing service provides free information to UMKC students on available off-campus housing in the Kansas City area. The service is provided by the Welcome Center, located in the University Center at 50th and Holmes streets.

For more information:

(816) 235-8652  
welcome@umkc.edu  
http://www.umkc.edu/welcome

Our mailing address:

University of Missouri-Kansas City  
Welcome Center  
5100 Rockhill Road  
Kansas City, MO 64110-2499
Note: The University reserves the right to modify by increase or decrease the fees charged for attendance and other services at the University, including but not limited to educational fees, at any time when in the discretion of the governing board the same is in the best interest of the University, provided that no increases can or will be effective unless approved by the governing board not less than thirty (30) days prior to the beginning of the academic term (semester, etc.) to which the fees are applicable and such increase does not exceed ten (10) percent over the fee level existing immediately prior to the increase, with all modification of fees to be effective irrespective as to whether fees have or have not been paid by or on behalf of a student prior to the effective date of the modification.

**Fall Semester 2004, Winter Semester 2005**

<table>
<thead>
<tr>
<th>Missouri Resident Fee Schedule</th>
<th>Educational Fee</th>
<th>Student (1) Programs User Fee</th>
<th>Info. Tech. Fee</th>
<th>Student Health Fee (2)</th>
<th>ASUM Fee (2)</th>
<th>Total Per Hour</th>
<th>Multi-(3) Purpose Bldg. Fee</th>
<th>Student Center Fee (3)</th>
<th>Maximum</th>
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<table>
<thead>
<tr>
<th>Missouri Non-Resident Fee Schedule</th>
<th>Educational Fee</th>
<th>Student (1) Programs User Fee</th>
<th>Info. Tech. Fee</th>
<th>Student Health Fee (2)</th>
<th>ASUM Fee (2)</th>
<th>Total Per Hour</th>
<th>Multi-(3) Purpose Bldg. Fee</th>
<th>Student Center Fee (3)</th>
<th>Maximum</th>
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<tbody>
<tr>
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<td>Dentistry (1-2) Flat Rate</td>
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Other Fees

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<thead>
<tr>
<th>Fee</th>
<th>Amount</th>
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<tr>
<td>Late Registration Fee</td>
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<tr>
<td>Registration Cancellation Fee</td>
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<td>Copyright</td>
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<tr>
<td>Applied Music</td>
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<tr>
<td>Clinical Nursing Fee</td>
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<tr>
<td>Undergraduate Computer Science Course Fee</td>
<td>$22.50 Per Credit Hour</td>
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<td>Undergraduate Engineering Course Fee</td>
<td>$47.30 Per Credit Hour</td>
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<tr>
<td>Graduate Cluster Fees:</td>
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<tr>
<td>Accountancy</td>
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<tr>
<td>Business Administration</td>
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<td>Computer Science</td>
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<tr>
<td>Engineering</td>
<td>$47.30 Per Credit Hour</td>
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</tbody>
</table>

(1) Breakdown of Student Program User Fee (assessed on the first 12 hours): University Center Fee $5.51; Athletic Fee $2.85; Student Activity Fee $4.01; Physical Facilities Fee $0.61.
(2) Student health fees will be assessed on the first 12 hours per semester. ASUM (Associated Students of the University of Missouri) fees will be assessed on the first 10 hours per semester.
(3) Per semester.
(4) Includes residents of Wyandotte, Johnson, Leavenworth and Miami counties in Kansas. See “Metro Rate” in General Undergraduate Admissions Policies and Procedures earlier in this catalog.
Intercollegiate Athletics

Swinney Recreation Center, Room 201
5030 Holmes Street
(816) 235-1036
Fax: (816) 235-1035
athletics@umkc.edu
http://www.umkc.edu/athletics
http://umkckangaroos.com

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

Director of Athletics
Robert Thomas

UMKC provides the Kansas City metropolitan area with an NCAA Division I intercollegiate athletics program that comprises 16 sports and approximately 200 student-athletes. UMKC women athletes compete in:

- Basketball
- Cross country
- Golf
- Indoor track and field
- Outdoor track and field
- Softball
- Tennis
- Volleyball

Men compete in:

- Basketball
- Cross country
- Golf
- Indoor track and field
- Outdoor track and field
- Soccer
- Tennis
- Rifle

Rifle is sponsored as a co-educational sport.

The Kangaroos became an NCAA Division I member institution in 1987. After seven years as an independent, UMKC joined the Mid-Continent Conference in 1994.

While seeking success for its teams in athletics competition, the UMKC intercollegiate athletics program also emphasizes a student-oriented philosophy that includes academic excellence and campus/community service. UMKC athletics is also committed to the overall welfare of its student-athletes and, in that commitment, provides programs for comprehensive academic support, strength and conditioning, life skills and athletics training. All of those programs are intended to ensure that student-athletes maintain their physical and academic health during their tenure at UMKC.

Women’s basketball and volleyball, and men’s and women’s outdoor track and field conduct home events on campus at Swinney Recreation Center. Men’s basketball home contests are played at historic Municipal Auditorium, men’s soccer home contests are conducted at Swope Park, and softball home contests are held at Adair Park.

All UMKC students may attend home events at no charge by showing their student identification card at the ticket window/table at the appropriate venue. Athletics contests are a vital element of vibrant campus living, and the support of the general student body is the foundation for building school spirit. Your attendance is appreciated!
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, while also keeping students and communities informed through a multi-faceted communications program including public relations, Web site and electronic communications, and our public radio station KCUR-FM 89.3.

This office provides overall leadership for a comprehensive program of student services through 22 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**

Administrative Center, Room 336
5115 Oak Street
(816) 235-1141
Fax: (816) 235-6504
stu-aff@umkc.edu
http://www.umkc.edu/stu-aff

Deputy Chancellor for University Communications and Vice Chancellor for Student Affairs and Enrollment Management: Patricia N. Long, Ed.D.

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. The center also provides assistance in locating off-campus housing.

**Bookstores**

**University Center Bookstore**

University Center
5000 Holmes Street
(816) 235-BOOK (2665)
Fax: (816) 235-1443
bookstore@umkc.edu
http://www.umkc.edu/bookstore

**Health Sciences Bookstore**

Dental School
25th & Holmes
(816) 235-2191
Fax: (816) 235-2747

**Career Services**

4825 Troost Building, Suite 205
(816) 235-1636
Fax: (816) 235-5534
careerservices@umkc.edu
http://www.umkc.edu/careers

Interim 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 winter semesters for two credit hours. A&S 170 (PACE) Career and Life Development is offered every winter 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 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. The center also provides assistance in locating off-campus housing.

**University Center Bookstore**

University Center
5000 Holmes Street
(816) 235-BOOK (2665)
Fax: (816) 235-1443
bookstore@umkc.edu
http://www.umkc.edu/bookstore

**Health Sciences Bookstore**

Dental School
25th & Holmes
(816) 235-2191
Fax: (816) 235-2747

**Career Services**

4825 Troost Building, Suite 205
(816) 235-1636
Fax: (816) 235-5534
careerservices@umkc.edu
http://www.umkc.edu/careers

Interim 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 winter semesters for two credit hours. A&S 170 (PACE) Career and Life Development is offered every winter 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 (http://www.umkc.edu/careers) and watch the University News for activities sponsored by Career Services and for on-campus recruiting schedules.

For professional students in the School of Education, School of Biological Sciences, Conservatory of Music or other professional schools, the Center provides assistance to graduates in establishing an educational placement file, hosts placement days and on-campus recruiting by school districts plus a variety of other services pertaining to job searches in the field of education.

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

Director: Glen Jacobs, D.Ed.

The Center for Academic Development (CAD) offers a wide range of services and programs to students from 8 a.m. to 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, summer college tours, ACT/SAT workshops, financial aid workshops, student leadership conferences, and a six-week summer 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.

GEAR UP
GEAR UP is a federally funded grant program that provides academic enrichment services to urban students in area middle and high schools. The UMKC grant addresses known barriers to academic achievement by providing early academic advisement, financial aid seminars, role models, career exploration workshops, motivational speakers, intensive academic enrichment courses and college bound workshops. The grant also provides professional development workshops for teachers to help them transform the learning environment within their schools.

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.

Advanced Preparation Program
The Advanced Preparation Program (APP) is a collaborative program involving both Academic and Student Affairs. The program’s purpose is to admit students who have a high probability of success at UMKC, but do not meet admission criteria. Students participating in the program will take part in a carefully-coordinated program and support activities to increase their success at UMKC. These include academic advisement, counseling and mentoring and enrollment in courses that develop essential academic skills and knowledge.

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 Trustees, 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.
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 services to promote the emotional, mental and physical well-being of the campus community. Service areas are described below:

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

Associate Director of Counseling: Paula Hammer, 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. 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, 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 Center offers workshops and presentations for students and staff on a variety of topics. Student organizations that have program needs can contact the office.

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 and additional sessions are $15/hour. Faculty and staff can receive services for $20/hour. Minimal fees are charged for testing. Call (816) 235-1635 for an appointment or information.

Student Disability Services
University Center, LL 23
5000 Holmes Street
(816) 235-5696
Fax: (816) 235-6363
disability@umkc.edu
http://www.umkc.edu/disability

Coordinator: R. Scott Laurent

Student Disability Services is committed to the success of all students with a documented disability. The office provides programming and supportive services to students with disabilities as well as disability awareness training to staff, faculty and students campus-wide.

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.

There is also a commitment to make UMKC a campus that is disability aware; one in which faculty, staff and students understand the unique challenges, myths and stereotypes faced by people with disabilities; recognize the unique contributions that people with disabilities make to society; and accept and engage people with disabilities in the daily flow of life.

Student Disability Services provides programming and supportive services at no charge to the student 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. 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
4825 Troost Avenue, Suite 115
(816) 235-6133
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, automobile accidents, sports injuries, fracture care, lacerations, conjunctivitis, skin infections, mono, sinusitis, strep throat, allergies, asthma, bronchitis, chest pain, colds, conjunctivitis, cystitis, diarrhea, ear infections, mono, acne, genital warts, athlete’s foot, conjunctivitis, colds, cystitis, ear infections, eczema, gonorrhea, H. pylori, mononucleosis, allergy, asthma, bronchitis, chest pain, colds, conjunctivitis, cystitis, ear infections, eczema, gonorrhea, H. pylori, mononucleosis, meningitis, MMR, tetanus, and flu shots in season), physical examinations, STD testing, allergy injections with student-furnished serum, and tuberculosis screening.

Student Health and Wellness 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.

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

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

Associate Director of Testing: Jim Wanser, M.A., Ed.S.

The Center offers a full range of admissions, licensure and certification examinations to students and community constituents. Students frequently use the CLEP program, as well as graduate entrance examinations including GMAT, GRE, LSAT, MAT, and MCAT. The C-Base for admission into teacher education and the PRAXIS examination for beginning teacher certification are routinely offered on national test dates for those in the field of education. In addition, the TOEFL and TSE are available for language proficiency testing. Testing for distance education, correspondence, or on-line testing is also available.

The Testing Office is a computer-based testing center for ETS tests, including the GRE, GMAT, TOEFL and PSAT. Testing is offered three days each week on a space-available basis with morning and afternoon testing times available. Scheduling is available by phone (816) 235-5820 and payment can be made by credit card. Candidates also may stop by the Center to register and pay by check.

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 winter terms), but aid for late winter 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 towards certificate/degree completion for financial aid eligibility. The policy falls within federal guidelines and must measure quality (grade-point average) 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 Winter/Spring semester each year. 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 freshmen and transfer students are automatically considered for most institutional scholarships after they are accepted to the University. The priority deadline for best consideration is to be admitted by March 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, or total withdrawal. Address changes should be made promptly through the UMKC Registration and Records Office.

Students may not receive aid in excess of a federally regulated cost of attendance. For that reason, they 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
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 technique of Supplemental Instruction is the cornerstone for the instructional methods used in the IPP medical student programs. Video Supplemental Instruction is a videotaped program used with trained facilitators at other universities for on-site review of basic sciences. 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 Center
5235 Rockhill Road
Tel: (816) 235-1113
Fax: (816) 235-6577
isao@umkc.edu
http://www.umkc.edu/isao

Director: Mahmoud Lamadanie

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, visa advising, international practical training assistance, referral to campus services, liaison with academic advisers, quarterly 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.

**Minority Student Affairs**

5245 Rockhill Road
Minority Student Affairs (816) 235-1109
African American History & Culture House
(816) 235-5641
Fax: (816) 235-5645
msa@umkc.edu
http://www.umkc.edu/msa

The mission of the Minority Student Affairs office is to improve the quality of the minority student's college experience. This is accomplished by integrating minority students into the academic and social systems of college life and by supporting and enhancing the academic, cultural and leadership development of minority students and minority student organizations. The aim is to assist minority students to achieve their educational goals and to encourage students' campus and community involvement.

The office serves minority students at UMKC by maintaining an open door policy, advising minority student organizations, assisting students to utilize the resources available at UMKC and supporting the growth and development of minority students through educational, social and cultural programming.

Minority Student Affairs also directs the activities of the African American History and Culture House (AAHCH). The mission of the AAHCH is to increase and enrich the general understanding of African American history and culture. The AAHCH also serves as a place for students to study, participate in student organization activities and events and meet other students. The AAHCH has study and meeting areas, an art gallery, a computer lab and a TV lounge.

**Project Refocus**

4743 Troost Avenue
(816) 235-5160
Fax: (816) 235-5238
refocus@umkc.edu
http://www.umkc.edu/refocus

Director: Lynn Horned

Project Refocus is designed for Missouri residents who have lost their jobs through company layoffs and closures, in addition to displaced homemakers who have lost a household income and individuals who have been terminated from their jobs. The program provides training and job search services. Project Refocus is an award-winning program provided at no cost, with convenient locations in Gladstone, Independence, Midtown and on-campus at UMKC. For more information, call (816) 235-5160.

**Registration and Records**

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

Registrar: Wilson Berry

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;
- Preparation of the schedule of classes;
- 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 any 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.
The mission of the Student Life Office is to provide services to students, faculty, and staff. The Office is committed to fostering a vibrant campus life experience through educational, social, cultural, recreational, and entertainment-based activities and programs that are responsive to student development through the social, cultural, recreational, educational, and life-long learning needs of the campus and surrounding community.

The campus programs at UMKC give an added dimension to the students' academic experiences by offering opportunities for personal development and growth. There are many opportunities to participate in the campus activities sponsored and funded by the various student organizations. In addition to advising the student councils, student government and more than 225 campus organizations in their programming efforts, the office also is responsible for the administration of the student activity budget, leadership education programs, various publications, Communciversity and all Greek organizations. Questions regarding any of these activities, including student conduct issues, may be directed to the Student Life Office staff at the above number.

The following represent the significant components of the student life program:

For more information, visit http://www.umkc.edu/stulife.

Activity & 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
For more information about campuswide honor societies call (816) 235-1448 or visit http://www.umkc.edu/stulife to receive academic encouragement or play a part in the classroom studies or foster new interests as members of the more than 100 clubs and organizations at the University. They can also build lasting friendships, cooperate in effective leadership and services for the good of the institution and the community.

- **Phi Kappa Phi**, founded in 1897, was the first national honor society to recognize superior scholarship in all fields of study and to take into membership the highest-ranking student from all branches of learning. UMKC’s chapter was constituted and installed with 16 faculty members on March 28, 1969. The national honor society replaced Torch and Scroll, the scholastic honorary which had served the University of Kansas City and then the University of Missouri-Kansas City. Each year, the highest-ranking students in the University are elected into membership.

- **Golden Key** is an international academic honors organization dedicated to excellence. The society is interdisciplinary and unites the talents of the brightest undergraduate students in America. Students qualify on the basis of objective academic criteria. No more than the top 15 percent of the juniors and seniors enrolled may be eligible. Members are actively involved with various community service projects.

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

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

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

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

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

**Clubs and Organizations**

A wide variety of interests – cultural, educational, recreational and social – can be pursued through involvement in the more than 225 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, 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.

**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.

**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 11 national social fraternities and sororities. There is also a local and international sorority. 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 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 and Sigma Phi Epsilon. Recruitment is held throughout the school year.
The National Panhellenic Council is comprised of members from the women’s sororities of Alpha Kappa Alpha and Delta Sigma Theta. The fraternities are Alpha Phi Alpha and Kappa Alpha Psi. Their primary recruitment is held during winter semester, January through May.

Student Government Association
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
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 comprehensive outdoor track;
- Handball, racquetball and squash courts;
- A fitness training center;
- A wellness center;
- Numerous aerobic training machines;
- Five gymnasia.

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. A spouse of a UMKC student may apply for a semester’s membership.

In conjunction with the Swinney Recreation Center, the UMKC Campus Recreation Department offers a variety of individual and team activities and programs for students, faculty/staff, SRC members and members of the community. These activities range from men’s, women’s and co-recreational aerobics, aqua-aerobics, basketball, softball, racquetball, and volleyball to swimming lessons (group or private).

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, the campus food service facility, conference and meeting rooms, the bookstore, the Campus Information Center, Helpline, barber shop, catering services, ATM, and a variety of administrative and student services offices.

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

Welcome Center
Administrative Center
5115 Oak Street
(816) 235-8652
(800) 775-8652
Fax: (816) 235-5544
welcome@umkc.edu
http://www.umkc.edu/welcome

Director: Jennifer E. DeHaemers

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. An indoor campus tour is available for those times when an outdoor tour is not convenient.

The center also provides assistance in locating off-campus housing. “SHARP,” the Student Housing Assistance and Referral Program, is a computerized program listing local property owners and managers who have rental housing available. In conjunction with SHARP, a “Roommate Wanted/Needed” computer program is available for students to match specific features they would prefer in a prospective roommate. This program helps identify individuals that meet the criteria.

Other services include providing General Catalogs to prospective students, other schools and businesses and publishing The UMKC Off-Campus Housing Navigator, a booklet that addresses questions, issues and problems most frequently encountered by student-tenants.

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: Jane M. Wood, Ph.D.

The Women’s Center provides services and programming for the educational and professional development of campus and community women. The center serves as an information and referral service with a reference library of books and tapes relating to women’s studies, careers and education.

Through its focus on women, the Center strives to enrich the educational quality of life for all people affiliated with UMKC. The mission is to be a leader in creating a forum to address the challenges and opportunities affecting women’s lives in the 21st century. In an environment that fosters open exchange and diversity, the center focuses on advocacy, educational programming and training, research, collaborative endeavors and service. The Center’s core values and guiding principles include the following:

- Encouraging development, growth and learning;
- Giving forum and voice to all;
- Supporting and building community;
- Being an integral and vital part of the University;
- Functioning with integrity and credibility.
The Women’s Center welcomes new ideas and activities to meet the unique needs of women. Those interested in receiving more information, or becoming involved, are invited to call the center or visit the Web site.

Additional Student Services

HelpLine
University Center, Room 101A
5000 Holmes
(816) 235-2222
FAX: (816) 235-6555
helpline@umkc.edu
http://www.umkc.edu/helpline

The HelpLine was created to assist members of the University community with problem solving, complaints and campus information. Staff investigate concerns, explain University policies, provide accurate information and refer callers to appropriate offices. Available to students, faculty, staff and alumni, this service is housed in the University Center and works closely with the office of the Vice Chancellor for Student Affairs. The hours are 8 a.m. to 5 p.m. weekdays.

Student Affairs Offices

College of Arts and Sciences
Office of the Associate Dean for Student Affairs
Scofield Hall, Room 313
711 E. 51 Street
(816) 235-2534
http://www.umkc.edu/college

Associate Dean: Judith McCormick

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

Staff in the combined Arts and Sciences Academic Advising and Program for Adult College Education (16 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 liaison 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 and 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.umkc.edu/bloch

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) 235-1385
sbs-undergrad@umkc.edu
http://www.umkc.edu/sbs

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 http://www.umkc.edu/sbs provides academic advising for all undergraduate students each semester prior to registration. Information and appointments can be obtained by calling (816) 235-1385.

Graduate students in the school receive advising and administrative support from the School of Biological Sciences Graduate Programs Office. Students may obtain information from that office by calling (816) 235-2352.

School of Computing and Engineering
Office of the Dean
RHFH, Room 534
5110 Rockhill Road
(816) 235-2399
sce@.umkc.edu
http://www.umkc.edu/sce

Manager, Student Recruitment & Enrollment Services: Douglas E. Swink (816) 235-1512 or swinkd@umkc.edu
Assistant Manager, Student Recruitment & Enrollment Services: Cheryl L. Hooper (816) 235-1277 or hooperc@umkc.edu

The Office of the Dean in the School of Computing & Engineering (SCE) works collaboratively with UMKC’s
Student Affairs offices, SCE divisional offices, SCE student organizations and SCE student support services offered within the school. The dean’s office provides pre-advising and counseling to prospective students who are planning to major in SCE degree programs. In addition, the office also enrolls all visiting and community students wanting to take courses offered within SCE. Following admission and acceptance into SCE programs, students are assigned a faculty adviser in the divisional office of Civil & Mechanical Engineering or Computer Science/Electrical Engineering. All admitted and continuing SCE students are required to be advised each semester and should contact the following divisional offices:

Civil and Mechanical Engineering Division
352 Flarsheim Hall
(816) 235-5550

Computer Science & Electrical Engineering Division
546 Flarsheim Hall
(816) 235-1193

The School of Computing and Engineering also participates in UMKCs Interdisciplinary Ph.D. program. For more information please visit http://www.umkc.edu/sgs.

Scholarship information for the School of Computing & Engineering can be obtained by visiting http://www.umkc.edu/sce/scholarships or by contacting Debby Dilks, Manager of Scholarships at (816) 235-1259 or dilksd@umkc.edu.

Conservatory of Music
Office of the Associate Dean
Grant Hall, Room 138
5228 Charlotte Street
(816) 235-2900
conservatory@umkc.edu
http://www.umkc.edu/conservatory

Associate Dean for Academic Affairs: William Fredrickson

The Office of the Associate Dean at the Conservatory of Music 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 Dentistry
Office of Student Programs
Dental School, Room 420
650 E. 25th Street
(816) 235-2080
dentistry@umkc.edu
http://www.umkc.edu/dentistry

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.

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.

Representative services/activities provided by the OSP include identification and counseling of potential applicants, processing applications to the school, maintenance of student records, initial assistance in financial aid and counseling, housing or part-time employment referral and those normally associated with registration/record units.

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
School of Education, Room 245
615 E. 52nd Street
(816) 235-2234
education@umkc.edu
http://www.umkc.edu/education

Assistant Dean: Lori Reesor

The Office of Student Services provides staff, resources, and programs to aid student success. The office also interprets state guidelines and program requirements for students seeking information about teacher certification. The staff provides assistance with admissions, scholarships, registration and academic advising. The staff also assists in the smooth dissemination of information on academic programs and certification standards to students and faculty.

Advising

Academic advisers are available to meet with teacher education students and with those who seek admission to undergraduate teacher education programs. The advisers serve as liaisons to the faculty advisers for graduate and undergraduate programs.

Certification

Printed information about each state’s teacher certification requirements is kept on file in the Student Services Office, as is certification testing information for Missouri and Kansas. The staff processes all applications for education-related certification.

The Student Services Office staff works to provide enhanced communication between students and other campus offices. The office is charged with coordinating the school’s commencement ceremony and other student-centered activities. The office staff also works with the School of Education’s student organizations to provide programming of interest to all students.

School of Graduate Studies
Office of Student Affairs
Administrative Center, Room 348
5115 Oak Street
(816) 235-1161, graduate@umkc.edu
http://www.umkc.edu/sgs

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 inquiries to the appropriate academic unit’s principal graduate adviser. The associate dean 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

Assistant Dean for Student Services:  
Matthew Davis davismr@umkc.edu

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  
2411 Holmes Street, Dean’s Office  
(816) 235-1900  
medicine@umkc.edu  
http://www.umkc.edu/medicine

Associate Dean for Student Affairs: Linda Johnson, M.D.

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 director works 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 director provides 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 year 1 and 2 students at Twin Oaks 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 year 3-6 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 1 preparation as well as assistance in the basic science courses in year 3.

**School of Nursing**
Office of Student Services  
Health Science Building, Room 123  
2220 Holmes Street  
Hospital Hill Campus  
(816) 235-1700  
nurses@umkc.edu  
http://www.umkc.edu/nursing

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 admissions, advisement, enrollment, registration 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  
Katz Pharmacy Building, Room 113  
5005 Rockhill Road  
(816) 235-1613  
pharmacy@umkc.edu  
http://www.umkc.edu/pharmacy

Manager of Student Services: 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 and referral, assistance in identifying scholarships, financial aid, and part-time employment, remediation and retention programs, records retention, assistance to student organizations with professional projects and introductory assistance with housing. The Student Services office works closely with the manager 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 American Council on Pharmaceutical 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. These programs include test-anxiety workshops, financial aid workshops, supplemental instruction and individual tutorials and orientation to the campus. 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, pharmacy orientation program, fall scholarship/awards ceremony and leadership reception, pharmacy career fair, commencement and the graduation awards banquet, the Grand Rounds’ seminars and senior exit day.
Learning Programs and Resources

Many programs and resources available at UMKC are intended to support and complement our student’s academic programs of study. Throughout UMKC, you will find opportunities to engage with faculty and fellow students in meaningful activities on campus, in research labs, in the community, and even internationally. At UMKC student learning and engagement are at the heart of our institution. The programs and resources described here are only a few of the opportunities to experience our vibrant learning community.

General Education

The general education programs at UMKC provide the curricular foundation for baccalaureate degrees. This program of study encourages students to acquire and use the intellectual tools, knowledge, and creative capabilities necessary to study the world as it is, as it has been understood, and as it might be imagined. The curricular options furnish students with the skills required to deepen that understanding and to communicate it to others. Through general education, the University equips students for success in their specialized areas of study and for fulfilled lives as educated persons, as active citizens, and as effective contributors to their own prosperity and to the general welfare.

The general education curriculum is constructed to introduce students to the traditional disciplines of the arts and sciences. As that knowledge is ever changing, general education alerts students to the connections between the traditional disciplines and to the potential for interaction among all branches of knowing, ordering, and imagining the real world. General education informs students that the world is understood in different ways and provides them with the means to come to terms, intelligently and humanely, with that diversity. Ways of knowing and understanding are diverse, thus students must acquire appropriate investigative, interpretative, and communicative competencies through the general education curriculum.

The Honors Program

This program offers academically excellent students an interdisciplinary approach to education that encompasses studies in the physical and life sciences, the arts and humanities, and the social sciences. At the heart of the Honors Program is a weekly one-hour colloquium in which honors students of all majors, first-year and seniors alike, meet with UMKC faculty and distinguished guest lecturers to learn from each other and exchange ideas. The colloquium is organized around a yearly theme, which allows students to stretch the boundaries of their knowledge.

Honors credit may also be received from specially designed honors courses, independent study, undergraduate research, and honors contracts. Honors students are encouraged to research, publish, and present their work regionally and nationally. Additionally, they have the option to complete a six hour project, the Senior Honors Thesis and engagement are at the heart of our institution. The programs and resources described here are only a few of the opportunities to experience our vibrant learning community.

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- Honors-only housing in the new residence hall (an Honors Living/Learning Community).
- Early registration before other students on campus.
- UMKC faculty who will individually guide you in your honors work.
- Community Service programs designed specifically for honors students.
- Special courses for honors students.

- Individual advising for national scholarships (i.e. Rhodes, Marshall, Truman, Goldwater, etc.)
- Scholarships for study abroad.

To participate, a first-year student should place in the top 10% on the ACT or SAT and top 10% of their high school class. Transfer students generally need to fulfill those criteria or have a GPA of at least 3.7 and/or participation in their previous college’s Honors Program. In certain cases students with a high GPA may be admitted upon the recommendation of two UMKC professors.

For more information see the Honors Program section under College of Arts and Sciences in the catalog.

Service Learning

One of the most significant ways a university engages with its community is by enabling students to expand their learning through service structured to meet the needs of both the community and the student. Because academic service-learning combines service with classroom-based instruction, it provides a forum for the practical application of theoretical knowledge-learning by doing.

As UMKC’s academic service-learning support office, Students in the City furthers the progress of urban core revitalization by catalyzing ever-increasing experiential education opportunities for UMKC students. Academic service-learning brings the city into the classroom. Through the assignment of a project that addresses community needs, students learn from community members and develop leadership skills while practicing theoretical knowledge gained in class. Students in the City is at the heart of UMKC’s mission to be an essential community partner and resource. By design, an academic service-learning project is mutually beneficial for its participants. Community organizations benefit from student talent and expertise while students learn from, serve, and engage with their community.

If you are interested in academic service-learning, contact us. Through its programs and services, Students in the City:

- Facilitates connections between community organizations and UMKC faculty, staff and students;
- Provides support for community organizations to host an academic service-learning project;
- Provides support for faculty to implement a service-learning project in a class; and
- Hosts forums for community members and UMKC faculty, staff and students to learn about best practices in the field of academic service-learning.

Interested? Contact us.

Students in the City
UMKC’s Academic Service-Learning Program
The Center for the City
4825 Troost Avenue, Room 104
Kansas City, MO 64110
(816) 235-6100
Fax: (816) 235-6566
centerforthecity@umkc.edu
http://www.umkc.edu/centerforthecity

Study Abroad

The Center for International Academic Programs (IAP) serves as a resource for UMKC students who would like to participate in study abroad and international internship opportunities. IAP provides information on study abroad options and oversees UMKC’s cooperative student exchange programs with colleges and universities in several countries including England, France, Germany, Mexico, Spain and South Africa. For a detailed listing of available study abroad programs, deadlines and related scholarships, please visit http://www.umkc.edu/iap.
Interested students should contact IAP for assistance in planning their international study abroad program. In order to receive academic credit, students must complete required documents (available at IAP) and, as outlined in the Guidelines for University of Missouri-Sponsored Study Abroad Programs, all students must complete an Assumption of Risk and Release form prior to departure. Students accepted into a program are also required to attend a mandatory pre-departure orientation.

Students are invited to visit IAP, located at 5325 Rockhill Road. Please call (816) 235-5759 for an appointment to meet with a staff member for assistance with an international program, scholarships or other inquiries. For additional information regarding study abroad and related scholarships, please visit http://www.umkc.edu/iap.

**Honors and Awards**

IAP also assists students who want to apply for major fellowships that support continued undergraduate study and graduate school. The IAP 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/iap.

**SEARCH (Students Engaged in Artistic and Academic Research)**

510B R.H. Flarsheim Hall
5110 Rockhill Road
(816) 235-6163
http://www.umkc.edu/searchsite

Program Director:
James Murowchick, Ph.D.
Associate Professor of Geosciences
murowchickj@umkc.edu

Program Coordinator:
Nancy Bockelman
bockelmann@umkc.edu

The SEARCH program encourages and supports research and creative activities by undergraduate students who wish to investigate an interdisciplinary topic or one in their field of study. Through focused dialogues and activities, like-minded students are drawn together to explore and discuss their challenges and successes throughout the research process.

In April of each year the University hosts the SEARCH Symposium, a celebration of student research and creative accomplishments. SEARCH promotes research from all disciplines. Participants are welcomed from all fields of study, including the physical and life sciences; the performing and visual arts; the humanities; and computing and engineering. SEARCH participants are paired with a faculty mentor and students are eligible to apply for support for a one- to two-semester research project. Applications are available on the Web at www.umkc.edu/searchsite.
Information Services

216 Administrative Center
5115 Oak Street
IS Call Center (816) 235-2000
Campus Operator (816) 235-1000
Campus Information (816) 235-5555
IS Administration (816) 235-1481
Fax: (816) 235-2622
http://www.umkc.edu/is

Mailing Address
University of Missouri-Kansas City
Information Services
AC 216
5100 Rockhill Road
Kansas City, MO 64110-2499

Interim Director of Information Services:
Thomas E. Brenneman

Description
Information Services provides students with state-of-the-art information technology by offering a wide range of computing, multimedia, telecommunications and networking facilities. In support of the University’s goal to provide quality instruction, Information Services provides tools to enable learning and discovery, research, service and administration. A description of the services we provide can be found on our Web site at www.umkc.edu/is, or in our Student Computer Resource Guide (found at any IS student lab or at the IS Call Center), or by calling (816) 235-2627.

The University has established guidelines that regulate the use of University-owned computer and network resources. The guidelines are online at www.umkc.edu/is/cio.

Operations and Administration
(816) 235-2000
http://www.umkc.edu/is/oa

Director:
Janet Carnett

Several general use microcomputer labs are available to authorized students. These labs are equipped with PCs, laser printers, scanners and adaptive facilities. A list of hardware and software available in each lab can be found at www.umkc.edu/labs. In addition, other labs are supported by individual academic units. Some of these labs and their facilities are listed at www.umkc.edu/labs/otherlabs.asp.

Central Systems
(816) 235-2000
http://www.umkc.edu/is/cs

Director:
Jim Hisle

E-mail accounts are provided to all students for their coursework. The University uses these e-mail accounts as a form of official communication. For details, see www.umkc.edu/exchange-faq.

An HP-UX Itanium Server, a Tru64 AlphaServer, an OpenVMS Alpha Cluster and a MOSIX computer cluster host a variety of programming languages in support of teaching and research activities. A complete list of academic computing facilities can be found at cctr.umkc.edu/site/acr.html.

Multimedia Technology Services
(816) 235-1096
http://www.umkc.edu/is/mts

Interim Director:
David Anstaett

Multimedia Technology Services (MTS) is a technological network serving UMKC, the University of Missouri System and the MOREnet Video Conferencing System. MTS provides a wide variety of distance education and television production services. Transmission services include Time Warner and Comcast Cable systems, satellite communications, ISDN videoconferencing, Internet-based videoconferencing and streaming technologies. UMKC’s Digital Cable System can be viewed at www.umkc.tv.

Students can learn about multimedia technologies through internships and classes through various academic departments, including the Department of Art and Art History and the Department of Theatre within the College of Arts and Sciences.

Networking and Telecommunications
(816) 235-1595 Main Number
(816) 235-1000 Operator Service
(816) 235-1191 Phone Repair Service
http://www.umkc.edu/is/nt

Director:
David Johnston

Internet and Internet2 access via MOREnet is available on campus to all students, faculty and staff. All University-owned computers on campus are attached to a high-performance network that is connected to a high-speed Internet link. Wireless access is available in many buildings including student study/lounge areas. Pay, campus, elevator and emergency phones are provided for use by the campus community. The Residence Halls have phone and data services available in each student room. The SBC White and Yellow pages can be accessed online at www.sbcyponline.com.

Support Services
(816) 235-2000
http://www.umkc.edu/is/support

Director:
Marilyn Reisenbichler

Support Services operates the Call Center, (816) 235-2000, which provides the first level of computer support on campus. If requests can not be resolved at the Call Center, a ticket is generated and sent to the appropriate group of technicians for resolution. Support Services provides faculty and staff on campus with a full range of software support, as outlined at www.umkc.edu/software.

Free anti-virus software for students and remote access software, called RooConnect, for students, faculty and staff are available for connecting to campus systems and the Internet from off-campus (www.umkc.edu/rooconnect). Residence Hall students have high-speed Internet access through ResNet (www.umkc.edu/resnet). Support for dial-up and ResNet services is also provided through the Call Center.
Training and Communications

(816) 235-2627
http://www.umkc.edu/is/tc

Director:
Dave Antonacci

From any UMKC computer, students, faculty and staff have free and immediate access to computer-based training (CBT) courses ranging from introductory to advanced topics on Microsoft products. For a list of CBT course titles and instructions on accessing these courses, go to mell.umsystem.edu. UMKC students, faculty and staff can also access online reference manuals for many popular computer applications through our eManuals & More Web site at www.umkc.edu/emanuals.

The department produces the Student Computer Resource Guide, describing important computer resources for students. An online (pdf) version of this guide can be obtained at www.umkc.edu/is/studentguide.

The department also publishes a regular newsletter, which is available online at www.umkc.edu/is/tc/publications.html and manages the Information Services Web site at www.umkc.edu/is that informs students, faculty and staff of events and services offered by the IS Division.
Library Services

Administrative Offices, University Libraries
212 Miller Nichols Library
(816) 235-1531

Miller Nichols Library
51st and Rockhill Road

Dental Library
School of Dentistry
650 E. 25th St.

Health Sciences Library
School of Medicine
2411 Holmes St.

Leon E. Bloch Law Library
School of Law
52nd and Oak St.

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

Shipping Address
University of Missouri-Kansas City
University Libraries
800 East 51st Street
Kansas City, MO 64110-2499

Interim Dean and Director of Libraries:
Joan F. Dean

Associate Director of Libraries:
Helen H. Spalding

Assistant Director for Administrative Services:
Jennifer L. Eigsti

Assistant Director for Public Services:
Elizabeth R. Henry

Assistant Director for Collection Development:
Marilyn R. Carbonell

Assistant Director for Technical Services:
Brenda L. Dingley

Assistant Director for the Health Sciences Libraries:
Peggy Mullaly-Quijas

Music/Media Librarian:
Laura Gayle Green

Director, Leon E. Bloch Law Library:
Paul D. Callister

Associate Director, Leon E. Bloch Law Library:
Lawrence D. Machlachlan

The University Libraries (http://www.umkc.edu/lib) provide research facilities, resources and services in support of academic programs. The Miller Nichols Library serves primarily the College of Arts and Sciences, the Conservatory of Music, 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.

Circulation

Books and other materials in the circulating collections are available to check out. Readers may request that books be recalled or reserved for them. Check-out procedures require current picture identification cards and affiliation with the University. The libraries have reciprocal borrowing arrangements with many other libraries.

Circulation Desk telephone numbers are:

- Dental Library (816) 235-2030
- Health Sciences Library (816) 235-1880
- Leon E. Bloch Law Library (816) 235-2631
- Miller Nichols Library (816) 235-1526
- Music/Media Library (816) 235-1675

Collections

Library services are based on combined collections of over 1.1 million volumes, 7,037 serial subscriptions, and substantial collections of government documents, microforms, sound recordings and musical scores.

Materials are available in many formats, from printed to electronic sources. Primary access to the collections is through the University of Missouri’s online catalog, MERLIN.

Collections have been enhanced by generous gifts from individuals and the Friends of the Library.

Community Information Program

Services in the dental, health sciences and Miller Nichols libraries are provided to non-UMKC businesses and individuals who have identified specialized information needs. The mix of services is tailored to the particular requirements of clients and reflects the libraries’ commitment to the Kansas City area. Information on library services for non-UMKC groups and individuals can be obtained at one of the following reference desks:

- Dental Library (816) 235-2030
- Health Sciences Library (816) 235-1880
- Miller Nichols Library (816) 235-1534

Computer Laboratories

Campus Information Services maintains an open computing laboratory on the third floor of the Miller Nichols Library. This facility may be used only by UMKC faculty, staff and students. The open laboratory has printers and personal computers with general-use software and network accessibility. A lab assistant is available in the area for assistance. (816) 235-5307.

Interlibrary Borrowing

If students, faculty and staff need research material not held by the campus libraries, the interlibrary loan staff will attempt to obtain material from another library. Requests for books from other Missouri libraries can be made directly through the MERLIN and MOBIUS online catalogs. Area public libraries provide interlibrary loan services to community members.

The Interlibrary Loan form for the dental, health sciences and Miller Nichols libraries is available online at: Interlibrary Loan Request Form (http://www.umkc.edu/lib/forms/check1st.htm).

UMKC Law School students, faculty, and staff may request interlibrary loan services from the Leon E. Bloch Law Library online at: Law Library Interlibrary Loan Request Form (http://www.law.umkc.edu/library/umkc_ill.html). Interlibrary loan telephone numbers are:

- Dental Library (816) 235-2030
- Health Sciences Library (816) 235-1878
- Leon E. Bloch Law Library (816) 235-2633
- Miller Nichols Library (816) 235-1586
**Marr Sound Archives**
The Marr Sound Archives is located in the southwest corner of the ground floor of the Miller Nichols Library and contains more than 250,000 sound recordings in a wide variety of recording formats. The focus of the collection is the American experience as reflected in recorded sound, with very substantial and significant holdings in the following areas:

- Historic voices;
- American popular music;
- Jazz, Blues, and Country;
- Vintage radio programs;
- Authors reading their own works;
- Historic classical and operatic recordings.

Appointments are recommended for large projects. (816) 235-2798.

**MERLIN**
The University of Missouri’s online catalog, MERLIN provides access to the library collections at the University of Missouri at Kansas City, Columbia, St. Louis, Rolla and St. Louis University. The MERLIN Library Catalog is available from the Libraries’ home page at: http://www.umkc.edu/lib/. Instructions for using MERLIN are also in the Guide to MERLIN at: http://www.umkc.edu/libonline/DatabaseGuides/merlin-web.htm. Access to the catalogs of other colleges and universities in Missouri is available through the MOBIUS Union Catalog. Students, faculty and staff can submit electronic requests for books from other libraries through MERLIN and MOBIUS.

**Music/Media**
The Music/Media Library collection is located on the ground floor of the Miller Nichols Library and comprises musical scores, books, periodicals, and nonprint material, such as filmstrips, slides, sound recordings and videos.

Listening facilities include playback devices for audio and video in a variety of formats. A group listening/viewing room is available. The media collection serves the Video Instruction Program and PACE (Program for Adult College Education), and provides media material for course instruction.

(816) 235-1675.

**Photocopy Services**
Photocopying and printing are available in all libraries. IKON debit cards are required and can be purchased, in three of the libraries to pay for photocopying and printing from public printers:

- Dental Library (816) 235-2030
- Health Sciences Library (816) 235-1880
- Miller Nichols Library (816) 235-1433

Contact (816) 235-5272 for Law Library Roo Prints Services.

**Reference Services**
Miller Nichols Library Reference Services are located in the new Information Commons area, designed as a collaborative, learner centered, laptop-ready lounge and study space. Wireless network is available here and throughout the Library. Professional librarians assist library users in selecting, locating, evaluating and using information in print, non-print and electronic sources. Each library site has trained staff available to provide reference services. Reference service is available online at: University Libraries Reference Form (http://www.umkc.edu/lib/forms/ref.htm).

Reference desk telephone numbers are:

- Dental Library (816) 235-2030
- Health Sciences Library (816) 235-1880
- Leon E. Bloch Law Library (816) 235-2271
- Marr Sound Archives (816) 235-2798
- Miller Nichols Library (816) 235-1534
- Music/Media Library (816) 235-1675
- Special Collections (816) 235-1532

**Services for Persons With Disabilities**
The Miller Nichols Library provides a variety of assistive/adaptive technology, with screen reading and enlarging capabilities, that allows access to the Internet, online library resources, and basic production software. This technology is capable of conversion of short items from text to electronic form and to embossing in braille. An Aladdin Genie Pro CCTV (Closed Circuit Television) for the visually impaired also is available. Arrangements can be made to borrow special materials and related services on an individual basis. Contact the Office of Services for Students with Disabilities, (816) 235-5696, for more information.

**Special Collections**
The Miller Nichols Library Special Collections houses the Snyder Collection of Americana, supplemented by historical materials of local and regional interest. The “Z” collection of rare books and limited editions, as well as an extensive music collection of hymnals, facsimiles, and materials related to American music, also comprise Special Collections. These are not browsing collections, but titles can be retrieved for supervised use in the library. (816) 235-1532.

**TLT Center**
(816) 235-1883
http://www.umkc.edu/tltc

The Technology for Learning and Teaching Center (TLT Center), located in the Miller Nichols Library, provides comprehensive, high quality resources to support faculty and teaching assistants from all academic disciplines in the use of technologies to enhance and extend teaching and learning; the innovative application of technology to support research and development; and the exploration, analysis and outcomes assessment of learning in an era of technological change.

**Libraries**

**Miller Nichols Library**
(816) 235-1671
http://www.umkc.edu/lib/mnl

The Miller Nichols Library located at 51st Street and Rockhill Road, provides books, journals, electronic and other resources in the humanities, social sciences, sciences, education and business. The Marr Sound Archives, the Music/Media Library, Special Collections, and an extensive Government Documents collection are housed here.

The Miller Nichols Library is open during the following hours when the academic year is in session. (Hours are posted for holidays, intersessions, and the Summer Session. Hours are subject to change; you may want to call or check the Web site to verify hours.)

- Monday-Thursday 7:30 a.m.-11 p.m.
- Friday 7:30 a.m.-5 p.m.
- Saturday 10 a.m.-5 p.m.
- Sunday 1 p.m.-11 p.m.
Dental Library  
(816) 235-2030  
http://www.umkc.edu/lib/dental

The Dental Library occupies part of the third floor of the School of Dentistry, 650 E. 25th St. It serves dental students and faculty, as well as participants in related academic programs. Area and regional dental health professionals are served through the Dental Reference Service. Application to use the Dental Library may be made to the Dental librarian. Dental Library hours, subject to change:

Monday-Thursday  7:30 a.m. - 9 p.m.
Friday  7:30 a.m. - 6 p.m.
Saturday  Noon - 5 p.m.
Sunday  Noon - 5 p.m.

Intersession hours:
Monday-Friday  7:30 a.m. - 4 p.m.

For access to the Dental Library after 5 p.m., or on weekends and holidays, please call (816) 235-2030.

Health Sciences Library  
(816) 235-1880  
http://www.umkc.edu/hsl

The Health Sciences Library is located in the School of Medicine, 2411 Holmes Street. In addition to its innovative Clinical Medical Librarian Program, it serves the Truman Medical Center, as well as the schools of medicine, nursing, and pharmacy. Valid institutional identification card such as the UMKC ID card, must be presented to enter School of Medicine building. Library hours are subject to change.

Monday-Thursday  8 a.m. - 10 p.m.
Friday  8 a.m. - 5:30 p.m.
Saturday  9 a.m. - 5 p.m.
Sunday  2 p.m. - 10 p.m.

Leon E. Bloch Law Library  
(816) 235-1650  
http://www.umkc.edu/law/library

The Law Library, located in the School of Law at 52nd and Oak streets, has approximately 210,982 volumes and 2,180 serial subscriptions, including statutes and cases from the 50 states, federal government, and foreign governments and organizations. Library hours are subject to change.

Monday-Thursday  7 a.m. - 11:45 p.m.
Friday  7 a.m. - 7 p.m.
Saturday  9 a.m. - 5 p.m.
Sunday  Noon - 11:45 p.m.

Changes posted at the Library entrance. For Intersession hours, please call the Library at (816) 235-1650.

Music/Media Library  
(816) 235-1675  
http://www.umkc.edu/lib/musiclib

The Music/Media Library is located on the ground floor of the Miller Nichols Library. See Miller Nichols Library hours.

Western Historical Manuscript Collection-State Historical Society of Missouri Manuscripts, Joint Collection/University Archives

David O. Boutros, Associate Director
302 Newcomb Hall
http://www.umkc.edu/whmckc

State Historical Society of Missouri Manuscripts
http://www.system.missouri.edu/shs

University Archives
http://www.umkc.edu/University_Archives

The Western Historical Manuscript Collection, Kansas City office, collects, preserves and makes available for research documents relating to the history and culture of Kansas City, Western Missouri and the Midwest. The full resources of the joint collections on all four campuses in Columbia, Kansas City, Rolla and St. Louis are available to researchers throughout the state.

The University Archives is the repository for records of enduring value officially made by the University of Missouri-Kansas City campus and for other materials of historical value related to the functions of the University.

Of special interest is the Edgar Snow Collection, which comprises his personal and working papers, films and photographs; materials from various contemporaries; and a library collection that provides additional research for Chinese history from the revolutionary period (1930s) to the present.

WHMC-KC and the University Archives supplement the resources of the UMKC Libraries. The collections are open to the public during the following hours:

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

Evenings by appointment only: (816) 235-1543.

Other Library Resources

Linda Hall Library is an independent research library located at 5109 Cherry Street, within the grounds of the University, one block from the Miller Nichols Library. The collections include all areas of the history of science, natural sciences, physical sciences and technology. Within that scope, the library has one of the nation’s largest research collections. The library also is a U.S. Patent Depository Library. UMKC faculty, students and staff may borrow books from the Linda Hall Library by obtaining a courtesy card at the Miller Nichols Library Access Services Desk. The Linda Hall Library is open to the public during the following hours:

Monday  9 a.m. - 8:30 p.m.
Tuesday-Friday  9 a.m. - 5 p.m.
Saturday  10 a.m. - 4 p.m.

Other special research libraries in the metropolitan area include the Harry S. Truman Presidential Library and Museum in nearby Independence, the Federal Reserve Bank Library in downtown Kansas City, and the Archie R. Dykes Library at the University of Kansas Medical Center.

Area residents can obtain check-out privileges to most area public libraries on both sides of the state line. Throughout the metropolitan area are branches of the larger public library systems, which include the Johnson County (Kansas) Public Library, Kansas City (Kansas) Public Library, Kansas City (Missouri) Public Library and Mid-Continent (Missouri) Public Library.
College of Arts and Sciences

Administrative Offices
Dean’s Office, Scofield Hall
711 E. 51st Street
(816) 235-1136
Fax: (816) 235-5191
college@umkc.edu
http://www.umkc.edu/college

Mailing Address
University of Missouri-Kansas City
College of Arts and Sciences
5100 Rockhill Road
Kansas City, MO 64110-2499

Dean;
Bryan F. Le Beau
Associate Deans:
Joseph Hughey
Judith K. McCormick
Charles J. Wurrey

General Information

Statement of Purpose
The primary academic missions of the College of Arts and Sciences are teaching and research. 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.

All departments of the College offer both undergraduate and graduate study. The College enables students to develop the creative, analytical and communication skills with which to 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.

Advising System
Room 9, Scofield Hall
711 E. 51st Street
(816) 235-1148

Academic advisers are a bridge between students, faculty and the entire campus community. During advising sessions, a developmental approach is used to assist students with academic questions and the decision-making process. 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, and
- 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 Advising Office in the following manner:

- Undergraduate and graduate faculty advisers in each department or program advise students who have declared majors in their major field of study, in general degree requirements and in graduate study requirements;
- Professional and graduate-student advisers in the Arts and Sciences 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; do evaluations of transfer courses; and conduct degree audits prior to graduation on all bachelors 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 Program 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 theater.

When the next semesters schedule is published on the UMKC Web site or in booklet form, 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 strictly on a walk-in basis, most faculty advisers require an appointment.

General Studies Program for Deciding Students
This program helps students choose majors while they are enrolled in the College. The program operates in conjunction with the Career Services Center of the Division of Student Affairs.

Research indicates that students who do not choose a major within their first two years are most at risk of not completing their college education. Therefore, juniors and
seniors who have not declared a major will receive special attention and help in making that important decision.

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.

**The Superior Student**
The College offers superior students various means to enhance or accelerate their academic programs.

**Dual Credit High School/College Program**
The College offers advanced students in many Kansas City area high schools the opportunity to earn UMKC credit prior to high school graduation. Qualified students may enroll in introductory college courses that meet general requirements for a bachelor’s degree.

**Credit by Examination**
See the General Undergraduate Academic Regulations and Information section of this catalog.

**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: 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.

**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.

**Study Abroad Programs**
In collaboration with the Center for International 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:

- Australia,
- Austria,
- Czech Republic,
- England,
- France,
- Germany,
- Greece,
- Iceland,
- Ireland,
- Italy,
- Korea,
- Lithuania,
- Malta,
- Mexico,
- Netherlands,
- Portugal,
- Scotland,
- Slovenia,
- South Africa,
- Spain,
- Sweden, and
- Switzerland.

For more information regarding study abroad and related scholarships, please visit http://www.umkc.edu/iap.

Additionally, the UMKC Study Abroad Coordinator is available at (816) 235-5790.

**General College Undergraduate Requirements, Regulations and Information**
The following policies and requirements concerning academic work in the College of Arts and Sciences are listed alphabetically.

Students also should consult the UMKC General Undergraduate Academic Regulations and Information section in this catalog for other regulations pertinent to academic life.

**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, 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 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; hospitality studies; healing and the humanities; Judaic studies; mathematics; philosophy; physics; political science; sociology; Spanish; theater; and women 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.

Graduation Procedure
After completion of 90 credit hours, students should file an “Application for Graduation” form at the Arts and Sciences Advising Office. After the application is filed, a review of the student’s transcript is prepared, and the student is contacted by phone or through the UMKC e-mail account 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 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 Academic Profile Exam, given 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 does not automatically extend a student’s application to the next semester.

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, and
• 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.

### Historical Periods

- **Sinai and Olympus: Two Views of Man and God**
  - History 400CQ/500C
- **The Roman Revolution: History and Culture from the Gracchi to Augustus**
  - English 300CR
  - History 400CR/500RR
- **Courts and Culture in the High Middle Ages**
  - English 400CF/591CF
  - History 400CF/500CF
- **Images of the Human Body in the Renaissance**
  - Art History 300CA
  - English 400CA/591CA
  - History 400CA/500CA
- **The Romantic Hero**
  - Art History 300CC
  - Foreign Languages 400CC
- **Radical Changes Since 1945**
  - Art History 400CE
  - English 300CE
  - History 400CE/500CE

### Special Themes

- **Peoples and Communities in Western Civilization**
  - Art History 300CG
  - English 300CG
  - History 400CG/507CG
- **The Story of Language**
  - English 300CH/591CH
  - Foreign Languages 400CH
- **Bridges**
  - History 300CU
  - Civil Engineering 291CU
- **Continuity and Change in the American City**
  - Art History 300CN
  - Sociology 303CN
- **Ethical and Social History of American Capitalism**
  - Economics 342CB
  - History 400CB/500CB
  - Philosophy 400CB
- **The American Social Film: The Silver Screen and the American Dream**
  - Communication Studies 400CD
  - History 300CD/500RA
- **Aesthetic Issues in the Arts**
  - Art History 300CJ
  - Conservatory of Music 497CJ
  - English 300CJ
  - Philosophy 400CJ
- **Women’s Lives: An Exploration Through Literature, Psychology and Sociology**
  - English 300CI
  - Psychology 303CI
  - Sociology 303CI
- **Controversy and Choice in Life and Science**
  - Philosophy 300CK

### 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:**

James Spence, MPA
2 Scofield Hall
711 East 51st Street
(816) 235-5874
spencejk@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:**

John Szmer, JD
23 Scofield Hall
711 East 51st Street
(816) 235-6094
szmerj@umkc.edu
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.

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, 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.

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.

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.

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 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 (http://www.umkc.edu/sched).

For additional information on the WEPT, please see 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.

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. Degrees
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; and
- 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 & Statistics and
- Physics.

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

Degree Program (Major)
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.
General Requirements

A. Communication (12 credit hours)
Every student must complete the following:

1. English 110 or Humanities 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. English 225 or Humanities 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. A Writing Intensive (WI) 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.
5. One course in which oral argumentation is a major focus. This requirement is met by the courses:
   - Communication Studies 110, 212, 213, 254P, 311, 343;
   - Theater 121; or
   - Humanities 404PW.

B. Mathematical, Symbolic and Logical Reasoning (6 credit hours minimum)
Every student must complete the following:

1. Mathematics 110, 116, 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:
   - Mathematics 160;
   - Any mathematics course at or above the 200 level; or
   - Philosophy 222. Note: Philosophy 222 may be chosen here only if it has not been chosen as the symbolic and logical reasoning requirement above;
   - Humanities 206P.

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 (but not for B.S. degrees, as of Winter 2002).
   - 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.

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;
   - Computer Science 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:
   - Humanities 203P;
   - World Literature 210, 220;
   - French 301, 303, 304;
   - German 301; or
   - Spanish 301, 303, 304, 401, 402.
2. One of the following courses:
   - Philosophy 210;
   - Philosophy 222. Note: Philosophy 222 may be chosen here only if it has not been chosen as the symbolic and logical reasoning requirement above;
   - Humanities 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 or 360R (American History);
   - Political Science 210 (American Government); or
   - Social Science 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:
   - Criminal Justice and Criminology;
   - Economics;
   - Geography (regional or cultural, which includes 105, 200, 202, 300, 309, 311, 329, 332, 333, 340, 341, 342, 350, 351, 352, 355, 398, 403, 405, 410, 415, 437, 460, 489, or 496 only);
   - History;
   - Political Science;
   - Psychology;
   - Sociology; or
   - Foundations of Social Sciences 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:
   • Chemistry;
   • Environmental Science;
   • Geography (physical geography only, which includes: 314, 315, 317, 319, 335, 336, 360, 401, 402, 404, 430, 442, 444, or 448);
   • Geology;
   • Natural Science;
   • Physical Science;
   • Physics; or
   • Biology.
3. Humanities and Fine Arts (two courses, 6 hours).
   a. Fine Arts:
      Every student must complete one of the following courses:
      • Art History 110, 110P;
      • Theater 130, 210; or
      • Conservatory 120.
   b. Humanities:
      Every student must complete one additional course from any of the following departments/areas:
      • Art (Studio);
      • Art History;
      • Communication Studies;
      • English;
      • Foreign Languages;
      • Humanities;
      • Philosophy; or
      • 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 section below on 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 activity courses in physical education may be applied toward the 120 minimum hours required for graduation.

General Education Requirements for Students Transferring from Other Missouri Institutions with a Certified 42-Hour Core Curriculum
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

Students Wishing to Complete UMKC's 42-Credit Hour Certified General Education Core Prior to Transferring to Another Missouri Institution
See the General Undergraduate Academic Regulations and Information section of this catalog. 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 Schofield Hall.

Arts and Sciences Courses
H280 Special Topics (2).

100 Methodologies in the Liberal Arts & Sciences: Theories & Applicant (3). 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.

103A Critical Thinking in the Arts and Humanities (3). 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 taught concurrently with a departmental course offered in the Video Supplemental Instruction model. Numerous additional assignments and activities enable students to both succeed in the departmental course and develop transferable cognitive skills at the same time. Credit and grades for the Arts and Sciences 103 course are based on a series of separate assignments specifically designed to enable students to succeed academically in the current and subsequent semesters. A&S 103 assignments would vary according to the discipline course it is linked with, but would include numerous supplemental readings, writing and problem solving activities done individually or 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.

103B Critical Thinking in the Social Sciences (3). This 3 hour course is designed to be taken in conjunction with entry level courses in Arts and Sciences disciplines. The course is designed to enhance students’ critical thinking and intellectual capacity, communication skills, and life long learning strategies. Assignments and problem solving activities in the course focus on developing thinking in the disciplines through interactive class sessions, experiments, and problem solving applications. The course is intended to be taught concurrently with a departmental course offered in the Video Supplemental Instruction model. Numerous additional assignments and activities enable students to both succeed in the departmental course and develop transferable cognitive skills at the same time. Credit and grades for the Arts and Sciences 103 course are based on a series of separate assignments specifically designed to enable students to succeed academically in the current
and subsequent semesters. A&S 103 assignments would vary according to the discipline course it is linked with, but would include numerous supplemental readings, writing and problem solving activities done individually and in groups/teams. Class attendance and participation are required. Only one of the A&S 103 a,b,c sequence may apply toward graduation requirements. Offered: Every Semester.

103C Critical Thinking in the Natural Sciences and Mathematics (3). This three hour course is designed to be taken in conjunction with entry level courses in Arts & Sciences disciplines. The course is designed to enhance students’ critical thinking and intellectual capacity, communication skills, and life long learning strategies. Assignments and problem solving activities in the course focus on developing thinking in the disciplines through interactive class sessions, experiments, and problem solving applications. The course is intended to be taught concurrently with a departmental course offered in the Video Supplemental Instruction model. Numerous additional assignments and activities enable students to both succeed in the departmental course and develop transferable cognitive skills at the same time. Credit and grades for the Arts and Sciences 103 course are based on a series of separate assignments specifically designed to enable students to succeed academically in the current and subsequent semesters. A&S 103 assignments would vary according to the discipline course it is linked with, but would include numerous supplemental readings, writing and problem solving activities done individually and in groups/teams. Class attendance and participation are required. Only one of the A&S 103 a,b,c sequence may apply toward graduation requirements. Offered: Every Semester.

160 Wine and Civilization (2). 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.

200 British Life and Culture (3). 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. Grades determined by a combination of papers and exams. Offered under the Missouri-London Program in London. Each semester.

205 Contemporary Europe (3-6). 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.

206 Contemporary Asia (3-6). 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.

207 Contemporary Latin America (3-6). 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.

208 Contemporary World Cultures (3). 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.

210 Cross-Cultural Interaction: Experience & Understanding (2-4). This course focuses on the social and cultural context of instructional 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 deeper understanding of cultural similarities and differences. Prerequisite: Consent of Applied Language Institute and instructor. Offered: Fall, Winter

240 Analysis of Medical Terminology (3). 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

250 Ophthalmic Procedures and Practices (1). Utilization of techniques to obtain medical and ophthalmic history, transcription of information into the medical chart, and common terms/abbreviations used in history taking. Covers front office techniques, including basic functions of a computer in the medical office. Develops skills needed to obtain accurate patient visual acuity. Prerequisite: Computer Science 100 Offered: Fall Restrictions: Must be eligible for Ophthalmic Technology courses.

260 Introduction to Clinical Skills (4). Covers basic test principles and techniques including the ocular screening exam, visual acuity measurement, slit lamp examination, tear function and color vision tests. Tonometry, refractometry and retinoscopy will be reviewed in the theory only. Offered: Fall Restrictions: Must be eligible for Ophthalmic Technology courses.

280 Special Topics (2).

304CM Cluster Course: Body Images in Medicine and the Arts (3). 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.

305 Ethics in America: The View from the Heartland (3). This interdisciplinary course brings national and local specialists together through the media of television case study and personal dialogues for an exploration of their general 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: Philosophy 210, 222 or consent of the instructor or Foundations of Social Science. Offered: On demand.

310A Ophthalmic Technology Practicum I (4). Introductory clinical work designed to apply technical skills acquired in previous course work. Recording of clinical data, front office procedures, obtaining patient’s health and ocular history, measuring visual acuity, medical record management, commonly used abbreviations/terms stressed. Offered: Fall Restrictions: Must be eligible for Ophthalmic Technology courses.

310B Ophthalmic Technology Practicum II (4). Clinical experience designed to apply the concepts and technical skills acquired in previous course work. Student will assist patients in all phases of care, perform advanced ophthalmic testing procedures and collect and prepare specimens for transport to the laboratory. Prerequisite: A&S 310A Offered: Winter Restrictions: Must be eligible for Ophthalmic Technology courses.

334 Introduction to African American Studies (3). 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, art, education, the legal system, the economic system, the Common Market, the rise of new media, 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.

350 Special Topics (1-4). An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

350A Special Topics (1-4). An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

350B Special Topics (1-4). An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

350C Special Topics (1-4). An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester
350D Special Topics (1-4). An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

350E Special Topics (1-4). An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

350F Special Topics (1-4). An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

350G Special Topics (1-4). An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

350H Special Topics (1-4). An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

350J Special Topics (1-4). An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

361 Ophthalmic Technology Seminar I (1). Review major professional subject areas. Discussion of clinical practicum experiences including concerns, issues, case studies and procedures. Offered: Fall Restrictions: Must be eligible for Ophthalmic Technology courses.

362 Ophthalmic Technology Seminar II (1). Review major professional subject areas, hear guest speakers on topics of interest and participate in field trips to industry sites. Discussion of clinical practicum experience including concerns, issues, case studies and procedures. Prerequisite: A&S 361 Offered: Winter Restrictions: Must be eligible for Ophthalmic Technology courses.

363 Ophthalmic Technology Seminar III (1). Review major professional subject areas, hear guest speakers on topics of interest and participate in field trips to industry sites. Discussion of clinical practicum experience including concerns, issues, case studies and procedures. Prerequisite: A&S 362 Offered: Fall Restrictions: Must be eligible for Ophthalmic Technology courses.

364 Ophthalmic Technology Seminar IV (2). Discuss challenges confronting practitioners and the presentation of new material in the field. May include field trips and guest speakers on topics of interest. Discussion of clinical practicum experiences and a general review for national certification examinations included. Prerequisite: A&S 363 Offered: Winter Restrictions: Must be eligible for Ophthalmic Technology courses.

405 Contemporary Europe (3-6). 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.

406 Contemporary Asia (3-6). 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.

407 Contemporary Latin America (3-6). 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.

410A Ophthalmic Technology Practicum III (4). Clinical experience designed to apply the concepts and technical skills acquired in previous course work. Students will assist patients in all phases of care, perform advanced ophthalmic testing procedures and collect and prepare specimens for transport to the laboratory. Prerequisite: A&S 310B Offered: Fall Restrictions: Must be eligible for Ophthalmic Technology courses.

410B Ophthalmic Technology Practicum IV (4). Clinical experience designed to apply the concepts and technical skills acquired in previous course work. Students will assist patients in all phases of care, perform advanced ophthalmic testing procedures and collect and prepare specimens for transport to the laboratory. Prerequisite: A&S 410A Offered: Winter: Restriction: Must be eligible for Ophthalmic Technology courses.

419 Natural Sciences for Elementary Schools I (1-5). 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).

420 Literature: A Healing Art (3). 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.

429 Natural Sciences for Elementary Schools II (2). 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.

439 Natural Sciences for Elementary Schools III (2). 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.

452 Images of the Family in Art and Literature (4). 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 cultures of the family in art and the culture of the family in literature. Each student must select and present four projects (one on each of following faith cultures-Christianty/Judiasm, 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.

490 Special Topics (1-3). Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only.

491 International Internship (1-9). 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.

492 Field Practicum in Aging (3-8). 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.

495 Honors Senior Thesis (3-6). An independent research course to allow students who have completed the requirements for the HONORS Program to do a Senior Thesis and if the thesis is acceptable as a Honors thesis-to graduate with Honors and as an Honors College Scholar. Prerequisite: Consent of Honors Co-Director and Thesis Advisor.

H101 Freshman Honors Seminar (1).

Natural Science Courses

311 Pharmacology/Eye Disease I (2). Designed to teach students the commonly administered ophthalmic drugs, appropriate uses, effects, dangers and precautions; routes of administration and the legal records and ethical standards necessary for the physician. A study of major diseases of the eye and related structures integrated with symptomatic treatment and study. Offered: Fall Restrictions: Must be eligible for Ophthalmic Technology courses.

312 Pharmacology/Eye Disease II (2). Continuation of Natural Science 311. Designed to teach students commonly administered ophthalmic drugs, users, effects, dangers and precautions; routes of administration and the legal records and ethical standards necessary for the physician. A study of major diseases of the eye structures integrated with symptomatic treatment. Prerequisite: Natsc 311 Offered: Winter Restrictions: Must be eligible for Ophthalmic Technology courses.

321 Clinical Optics (3). Introduces mathematics used in optical prescriptions, manufacturing and dispensing. Basic principles governing transmission of light and its interaction with optical media. Includes experimentation to visually inform the student of the laws of geometric optics.

322 Clinical Optics II (3). Continues the study of advanced optical mathematics, geometric optics including prisms, ray tracing, lens aberrations and formulas for finding image distances. Use of lensometers, radius/diopter
formulas, multifocal prescriptions and power calculations. Prerequisite: NatSci 321 Offered: Winter Restrictions: Must be eligible for Ophthalmic Technology courses.

330 Ocular Anatomy Physiology (2). Relates structure and function of the human visual system. Anatomy and physiology of the eyeball, orbit, and oculu adnexa are covered. Special emphasis placed on oculu terminology. Prerequisite: Nat Sci 118 and 118L Offered: Fall Restrictions: Must be eligible for Ophthalmic Technology courses.

334 Diagnostic Procedures I (4). Introduction to fundamentals of diagnostic testing and techniques including: applanation and Schiotz tonometry and biomicroscopy. Presents principles and techniques of refractometry and retinoscopy with emphasis on skill development utilizing the schematic eye. Prerequisite: A&S 260 Offered: Summer Restrictions: Must be eligible for Ophthalmic Technology courses.

335 Diagnostic Procedures II (4). Presents principles and techniques of various methods of visual field examination. The visual pathway, common causes of visual field loss, and retalted anatomy will be covered with emphasis on Goldmann perimetry. Also covers principles and techniques of exophthalmometry, color vision and tear function tests. Emphasis is placed on skill development. Prerequisite: NatSci 334 Offered: Fall Restrictions: Must be eligible for Ophthalmic Technology courses.

340 Ocular Motility (2). Introduction to ocular motility and binocular vision. Emphasis is placed on understanding the presentation, characteristics, natural history of the strabismus patient. Amblyopia and binocular vision are also addressed. Prerequisite: NatSci 330 Offered: Summer Restrictions: Must be eligible for Ophthalmic Technology courses.


352 Fundamental and Principles of Contact Lenses II (3). Continuation of Natural Science 351. Covers fitting theories and principles for soft and rigid contact lenses, solutions for care and maintenance, dispensing, patient education, post fitting observations and theories on kitting keratoconus and bifocal contact lenses. Lab activities will allow for observation of physical properties and fitting challenges of contact lenses. Prerequisite: NatSci 351 Offered: Fall Restrictions: Must be eligible for Ophthalmic Technology courses.


354 Therapeutic Assisting Procedures (4). Focuses on the technician’s role in assisting in the management of preoperative and post operative patients. More advanced ophthalmic procedures included such as ultrasound, potential acuity meter, direct ophthalmoscopy and contrast sensitivity. Specimen collection for the laboratory addressed. Prerequisite: NatSci 335 Offered: Winter Restrictions: Must be eligible for Ophthalmic Technology courses.

355 Surgical Assisting Procedures (4). Addresses the technician’s role in minor office surgery and assisting in the operating room. Topics covered include: proper aseptic technique, scrubbing, gowning and gloving, sterilization of instruments, the importance of surgical conscience/legal responsibilities, proper disposition of supplies/medications and security procedures of medications as regulated by law. Prerequisite: NatSci 335 Offered: Winter Restrictions: Must be eligible for Ophthalmic Technology courses.

**Social Science Courses**

210 Foundations of Social Science I (3). 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.

**Physical Science Courses**

110 Foundations of Physical Sciences I (4). Fundamental principles and concepts of the various physical and mathematical sciences, integrated by the history and philosophy of science. Fall and winter semester.*

110L Foundations of Physical Sciences, Laboratory I (1). General laboratory and discussion sessions on various topics in the physical and mathematical sciences. May only be taken concurrently with Physical Science 110.

120 Foundations of Physical Sciences II (4). Continuation of Physical Sciences 110. Prerequisite: Physical Science 110.

410 Selected Topics in Contemporary Science (3).
American Studies

Haag Hall, Room 204G
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http://www.umkc.edu/am-st

Program Director:
Mary Ann Wynkoop

Program Description

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: AM ST 250 and 251 (PACE equivalent AM ST 341P and 302P).
2. A three-hour integrating seminar (AM ST 440WI), in which the student produces an interdisciplinary seminar paper based on his or her coursework and its prerequisite, AM 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.

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

American Studies Courses

250 Introduction to American Studies I (3). 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.

251 Introduction to American Studies II (3). 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: AS250 Offered: Winter Semester.

300C American Social Film: Silver Screen and the American Dream (3). 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, and a collection of articles constitute core readings. This course is offered as a cluster with Communication Studies 400CD.

301 American Stds: IS/Tutorial: Themes in the American Popular Arts (4). 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 media. Instructional audio tapes and traditional literature about American Culture show the relevance of examples of popular art to broader themes. Prerequisites: Concurrent enrollment in American Studies 302P and 303PW. Offered: On demand.

302 Survey Of American Studies (4). 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 American Studies 303PW. Offered: On demand.

303VI Methods & Problems in American Studies (4). 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, but, however, students should expect to participate in oral history, interpretation of material culture, and traditional archival research and document analysis.

340 Seminar: Critical Issues in American Culture (3). 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.

340P American Material Culture: The 1950s (4). 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.

341 American Material Culture: Objects and Images (4). 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.

342 American Material Culture: Museums (4). This course will focus on local institutions that use material culture in their presentation of history and the American experience. Offered: Fall.

350 Medical Humanities and American Studies (3). This course uses biological science and technology as the lens to focus a study of American Culture. Through a series of case studies, we will examine some of the ways biological science and technology are shaped by and shaped American culture. Far from a “value free” terrain, science has been linked with much that American values, such as material success, progress and morality. Technological changes have also been essential in the evolution of many institutions that are central to the daily lives of Americans (such as the household and the workplace). Over the course of the semester, we will explore specific issues concerning the social history of disease in American culture, science and technology as cultural practice, and the meaning of race and gender in relations to science and technology. Prerequisite: None. Offered: On demand.

375 Censorship and Popular Culture in America (3). The First Amendment to the Constitution states that “Congress shall make no law ... abridging the freedom of speech or of 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.

380 Decade of Dissent: The 1960s (3). 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.

400 Special Studies (1-3). 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.
400S Special Studies (1-3). 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.

430 American Studies Internship (1-6). 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.

440WI Senior Seminar (3). 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: American Studies 400 Offered: Fall/Winter/Summer
Department of Architecture, Urban Planning and Design

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Visiting Professor:
Theodore Seligson, FAIA
Adjunct Professor:
Glen LeRoy, FAIA, FAICP
Kansas State University Professor:
Mark Shapiro
Lecturers:
Christopher Brewster, Esq., AIA; John Eck, AIA; Vincent Gauthier; Vince Latona, AIA; Sue Malik, RA; Joshua Olsen; Greg Sheldon, AIA; James Snedegar, RA; Richard Wetzel, AIA
Joint Appointment:
Joseph Hughey, Ph.D, Associate Dean, Arts & Sciences; Rochelle Ziskin, Ph.D, Associate Professor, Art and Art History
Research Associate:
Nancy Darnell
Participating Faculty:
James Sheppard, Ph.D, Philosophy; Ray Covenev, Ph.D, Geosciences; Wei Ji, Ph.D, Geosciences; Steve Driever, Ph.D, Geosciences

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.

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 healthcare; how they get from place to place; what our communities look like; and how we use our resources.

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.

Architectural Studies
Architectural Studies is a two-year cooperative program with Kansas State University that began in 1987. The accredited curriculum at KSU’s 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.

The KSU director of admissions and the faculty in the College of Architecture, Planning and Design determine admission. Specific KSU admission requirements are available from the UMKC department chair.

Architecture Courses
Please refer to the course listing at the end of this section for a list of courses.

Urban Planning and Design
The College’s 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
Please refer to the course listing at the end of this section for a list of courses.

Financial Aid
Many scholarships and student financial aid alternatives are available. Every year approximately 80% 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.

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 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.

Student Activities
The department supports an AIAS student group on the UMKC campus. The organization is the national student organization for students studying architecture and related fields. Students interact with the local professional chapter (AIA/KC) in activities, scholarship opportunities and lectures. Many times the professionals serve as mentors to students in various capacities. Every year students attend national AIAS meetings, thus interacting with students from across the country.

Students are encouraged to participate in annual competitions. Kansas State University sponsors the Delineation Competition. SEARCH Symposium is another event that students are selected to participate in at UMKC. SEARCH Symposium is a university competition that supports and encourages undergraduate research.

Open House
The department hosts an open house on the first Friday in December every year. An exhibition of student work is on
201 Environmental Design Studio I (4). Foundation studies introducing the
principles, processes and vocabularies of environmental design. 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.

202 Environmental Design Studio II (4). Continuation of ENVD 201.
Prerequisites: ENVD 201 and permission of department. Offered: Winter semester.

203 Survey of the Design Professions (1). 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. Prerequisite:
Permission of director. Offered: Fall semester.

248 Building Science (3). Instruction in the materials of building and
landscape design; sources, characteristics and uses in design and construction:
emphasizing evaluation and selection. Two lectures and one recitation per
week. Offered: Fall semester.

250 History of the Designed Environment I (3). 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.
Prerequisite: permission of director.

251 History of the Designed Environment II (3). 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. Prerequisite: ENVD 250 or permission of director.
Offered: Winter.

252 History of the Designed Environment III (3). The history of the
designed environment from the mid-18th century to the present. Prerequisite:
ENVD 251 or permission of instructor. Offered: Fall semester.

301 Architectural Design Studio I (5). 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: ENVD 202 Offered: Fall.

302 Architectural Design Studio II (5). 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.
Prerequisites: ENVD 301 Offered: Winter semester.

348 Structural Systems in Architecture I (3). 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
Offered: Fall semester.

413 Environmental Systems in Architecture I (4). 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.

449 Structural Systems in Architecture II (3). 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: ENVD 348. Offered: Winter semester.

Urban Planning and Design Courses

260 History of Planning and Urban Design (3). 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

270 Urban Planning Theory and Practice (3). This course examines
contemporary urban planning and design practice. Theories about planning
practices and related case studies will be the basis of the 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,
effective communication 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

300 Quantitative Planning Methods and Techniques (3). 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

310 Planning and Design Studio I (4). 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(s): ENVD 201.202 Offered: Fall
Restrictions: Consent of Department

312 Planning & Design Studio II (4). 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. Continuous 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

410 Planning & Design Studio III (4). 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: Consent Dept. Architecture, Urban Planning &
Design. Offered: Fall

412 Planning & Design Studio IV (4). 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.

432 Urban Environment Planning and Design (3). 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: Summer

450 Planning Law & Practices (3). Introduction to legal procedures basic
to urban planning, including legal, constitutional, legislative, and administrative
concepts, controls, and land-use regulations.

472 Urban Redevelopment (3). Contemporary issues of urban
redevelopment, with an emphasis on American cities, will be examined.
Redevelopment processes recently completed or underway in the greater
City region will be the subject of a case study and a theoretical review by each
student. Offered: Winter

490 Urban Planning Internship (3). 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
Restrictions: Consent of the Department.

496 Directed Studies in Urban Planning (1-3). Intensive reading and/or
research in an area selected by the student in consultation with the instructor.
Prerequisites: UPD 260, 270 and 300 Offered: On Demand Restrictions:
Permission of instructor

499 Special Topics in Urban Planning (1-3). 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
Department of Art and Art History

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Burton L. Dunbar

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

Instructor Emeritus:
Nancy DeLaurier

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

Associate Professors:
Frances Connelly, Geraldine E. Fowle (undergraduate art history adviser), Kati Toivanen, Rochelle Ziskin (graduate art history adviser)

Assistant Professors:
Barry Anderson, P. Elijah Gowin, Maria Park, Paul Tosh

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

Adjunct Assistant Professor:
Marilyn Carbonell

Curator of Slides:
Carla Gilliland

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 an elective for non-majors, as part of the program for studio majors, and as a major field for students 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.

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. All art and art history students have free admission to the museum.

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.

The Belger Collection
The University of Missouri-Kansas City Belger Arts Center for Creative Studies houses expansive collections by five renowned American contemporary artists: William Christenberry, Jasper Johns, Robert Stackhouse, William T. Wiley and Terry Winters. The facility’s primary mission is to serve as an interactive, public educational center, dedicated to the creative process, that fosters innovative and interdisciplinary study and discussion.

Collection of Slides and Mounted Reproductions
Among the resources of the department are a curator-supervised collection of slides and mounted photographic reproductions of art. These collections may be used by students with faculty permission and supervision. Selected materials may be put out for study in conjunction with a course or may be requested for individual projects, such as a research paper. In all cases, such use is under the supervision of the curator.

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**

**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 the 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, Art 302, and Art 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 9 hours of studio art: Art 112, Art 121, and Art 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 3-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**

**Studio Art Curriculum**

The offerings in studio are divided into four general classifications: foundation studio (100-200); intermediate (300); advanced (400); and graduate (500).

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, 131;
2. A minimum of 24 studio credit hours in order 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;
4. Art history: three courses from the survey sequence Art 301, 302, or 303, or 315, or 319, and one 400-level Art History elective course. Total Art History requirements: 12 credit hours. Up to 6 additional credit hours in Art History can be counted towards the 24 studio credit hours mentioned in requirement number 2.

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, 121, 131, 212, 221 and 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, 206, 308 or 309, 311 and 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, 302, or 303, or 315, or 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 18 hours of studio art taken in consultation with a faculty adviser.

Bachelor of Arts: Art
Degree Requirements

1. Art history: Art 301, 302 and 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 100/200-level courses in art be completed within the first five semesters to give ample opportunity to schedule the 300- and 400-level classes required.

Art and Art History Courses

100 Topical Studies in Art History (1-3). 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.
101 Topical Studies in Studio Art (1-3). 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.
110 Introduction to the Visual Arts (3). 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.
112 Foundation Drawing (3). Drawing on the introductory level. Every semester.
114 Introduction to Computer Multimedia (3). 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.
116 Computer Animation (3). 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.
121 Foundation Design–Two Dimensional (3). 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.
300 Interdisciplinary Studies: Cluster Course Offerings I (3).


300CB CC: The African Diaspora in the Arts and Culture (3). 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 Diaspora culture involves an analysis of 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 people. Students will be exposed to methodologies garnered from the Arts, Literature and Religious Studies.

Restrictions: Sophomore or above.

300CD CC: The African Diaspora in the Arts and Culture (3). 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.

300CS CC: Sight and Sound—An Examination of Perceptual Experience (3). 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.

300CW CC: Women in a Man’s World: Gender, Sex & Status in Classical Antiquity (3).

301 Survey of Western Art: I (3). 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.

302 Survey of Western Art II (3). 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.

303 Survey of Western Art III (3). 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.

305 Photography II (3). 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.

308 Lithography (3). Study of stone lithographic process. Prerequisite: Art 224. Winter.


310 Computer Multimedia II (3). 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.
311 Painting I (3). Painting in oil or acrylic on the intermediate level. Emphasis on tonal color and design exploration. Prerequisite: Art 212, 221. Every semester.

312 Figure Drawing I (3). A study of the structure of the human figure with emphasis on the dynamics of figure movement. Prerequisite: Art 212. Annually.

313 Graphic Design I (3). 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, 206, 212, 224 or permission of the instructor. Offered: FS95.

314 Graphic Design Production (3). Study of the Mechanical procedures and techniques used for the realization of graphic design production. Prerequisite: Instructor’s permission. Winter.*

315 Art of African, Oceanic, and New World Cultures (3). This historical survey of ethnographic arts will include three world areas: Africa, the Americas, and Oceania. The societies chosen for discussion have a diverse visual arts tradition. The geographical range, the diversity of forms, materials, and functions, of these arts will be demonstrated. Prerequisite: None. Offered: Each winter.

319 Asian Art (3). 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.

322 Advanced Drawing I (3). Compositional and conceptual concerns in drawing, primarily with life drawing emphasis. Prerequisite: Art 212. Every semester.

335A Digital Imaging II (3). 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.

403 Advanced Typography (3). 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

404 Computer Multimedia III (3). 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.

405 Art in Secondary School (3). 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.

406 Advanced Problems in Photography (3). 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. Kwik-print, gum bichromate, cyanotype, Van Dyke Brown, etc.), hand coloring techniques, photo-collage, etc. Prerequisite: Art 305, or permission of instructor.

411 Painting II: Oil/Acrylic (3). Painting on the advanced level with individual selection of medium and technique. Prerequisite: Art 311. Every semester.

412 Figure Drawing II (3). 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 322. Annually.

413 Graphic Design II (3). 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.

415WI Romanticism (3). 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.

416WI Later 19th Century Painting and Sculpture (3). 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 215. Prerequisite: Art 303 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Fall, odd years.

421 Painting III: Oil/Acrylic (3). Continuation of Art 411. Prerequisite: Art 411. Every semester.

422 Advanced Drawing II (3). Continuation of Art 322. Prerequisite: Art 312 or 322. Annually.

423WI Design Seminar (3). 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, 413 or instructor’s permission. Offered: On Demand

424 Early 20th Century European Painting and Sculpture (3). A study of European painting and sculpture from c. 1900 to c. 1940. Prerequisite: Art 303 or permission of instructor. Winter, odd years.

426 Twentieth Century Painting (3). 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.

427 Twentieth Century Sculpture (3). 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.*

428 American Architecture And Urbanism (3). 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, 303 or instructor’s permission. Offered: Fall.

429WI American Painting and Sculpture (3). 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.

430 Graphic Design III (3). 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

440WI French Art: Renaissance and Baroque (3). A history of French art from the time of Louis XIV 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.

441WI Northern Baroque: The Age of Rubens, Rembrandt and Wren (3). 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.

442 Art of Sub-Saharan Africa (3). This course presents an in-depth study of African Art from the sub-Saharan 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.

443 Pre-Columbian Art (3). 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.
445 Northern European Art: 15th and 16th Centuries (3). 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, Jan Gossaert, Dieric Bouts, 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.

447WI Italian Baroque: The Age of Caravaggio, Bernini and Borromini (3). Painting, sculpture and architecture in Italy from the Baroque style in the late 16th century to the beginnings of the Baroque era. Prerequisite: Art 302 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

448WI Spanish Art: El Greco to Goya (3). A history of Spanish art from the 1st century B.C. to the 19th century. Prerequisite: Art 302 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

449 Art and Architecture in the Age of Enlightenment (3). Painting, sculpture and architecture in France, Italy, England, Spain and Central Europe during the 18th-century. Prerequisite: Art 302 or permission of instructor.

450 15th Century Italian Art and Architecture (3). 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 Antiquity, 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 302 or permission of instructor.

452 Greek Art and Architecture (3). A survey of Greek sculpture, vase painting, and architecture from the third millennium to the first-century B.C. Emphasis will be placed on material from the Late Republic to the Severan period. Prerequisite: Art 301 or permission of instructor.

454 16th Century Italian Art and Architecture (3). The visual arts in Italy from the beginnings of the High Renaissance in the late 16th 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 301 or permission.

455 Roman Art and Architecture (3). 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.

456 History of Photography (3). 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.

457 The Painting and Sculpture of China (3). Jade sculptures of the 16th Century Italian Art and Architecture (3) Prerequisite: Art 302 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

458 Oceanic Arts (3). 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 art forms associated with men’s societies, esoteric knowledge and state institutions. Emphasis will be placed upon the stylistic relationships between island groupings and the contexts in which the varying arts are employed. Prerequisite: Art 315 or permission of instructor.

473 Visual Arts Administration (3). 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.

480 Art Since 1945 (3). 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.

482 Scope & Methods of Art History (3). 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.

485 Technical Colloquium (3). An advanced study of technical matters pertinent to the production of art. Demonstration projects required. Prerequisite: Permission of department. Offered: Every Fall.

486 Special Topics in Art Education (2-4). 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.

495 Technical Studies in Art (2-4). With the permission of the department, an advanced student may pursue a technical investigation on a seminar or individual basis. Every semester.

497A Special Studies in Medieval/Renaissance Art (1-6). 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.

497B Special Studies in Baroque/Rococo Art (1-6). 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.

497C Special Studies in 19th- and 20th-Century Art (1-6). 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.

497D Special Studies in American Art and Architecture (1-6). 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.

497E Special Studies in Art Museum (1-6). 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.

497F Special Topics In Asian Art (1-6). 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.

497H Special Studies in Art History (1-6). 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.

498 Special Problems in Drawing (1-6). With permission of the department, an advanced student may pursue a technical investigation on a seminar or individual basis. Acceptable for graduate credit with approval. Every semester.

498A Special Problems in Painting (1-6). 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. Every semester.

498B Special Problems in Drawing (1-6). With permission of the department, an advanced student may pursue a selected project on a group or individual basis. Acceptable for graduate credit with approval. Every semester.

498E Special Problems in Graphic Design (1-6). With permission of the department, an advanced student may pursue a selected project on a group or individual basis. Acceptable for graduate credit with approval. Every semester.

498F Special Problems in Ceramics (1-6).
498G Special Problems in Construction (1-6). 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.

498I Advanced Problems in Lithography (1-6). 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.

498J Advanced Problems in Intaglio (1-6). 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.

498L Special Problems in Photography (1-6). 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.

498M Special Problems in Electronic/Media (1-6). 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.

498O Special Problems in Graphic Design Internship (1-6). 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. Offered: WS96

499WI Senior Seminar (3). 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 prepare students for final year in program and provide continuation and solidification of theoretical and practical ideas. Two papers, class presentation, and class participation are required. This course will be writing intensive. Prerequisite: Junior standing in studio. Offered: Winter Semester Annually.

H110 Introduction to Visual Arts - Honors (3).

Art History Courses

300CJ Cluster Course: Aestheticism in the Arts (3). This cluster course will deal with aesthetic problems in the arts illustrated with specific examples in music, literature and the visual arts. Winter.

403 Advanced Typography (3). 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.
### Department of Chemistry

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**Professors Emeriti:**  

**Curators’ Professors:**  
Y.C. Jerry Jean (Chemistry and Physics, Chair), James R. Durig, (Chemistry and Geosciences), Charles J. Wurrey (Curators’ Distinguished Teaching, Executive Associate Dean, College of Arts and Sciences)

**Professors:**  
Jerry R. Dias, Thomas C. Sandreczki, Kenneth S. Schmitz, Zhonghua Peng (Principal Graduate Adviser)

**Associate Professors:**  
Keith R. Buszek, Peter Groner (Director of Laboratories), Andrew J. Holder, Kathleen V. Kilway (Principal Undergraduate Adviser)

**Assistant Professors:**  
Ekaterina N. Kadnikova, J. David Van Horn

**Visiting Assistant Professor:**  
Todor K. Gounev

### 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.

### Undergraduate Programs

#### Career Implication of the Bachelor’s Degree

The bachelor of science degree is based on guidelines established by the American Chemical Society and is designed for those who want to work in the field of chemistry. Many of those receiving the bachelor of science degree will go on to graduate work and advanced degrees. Others will go directly to a job requiring chemical knowledge, possibly as laboratory workers. In contrast, the bachelor of arts degree is more flexible as a consequence of a smaller minimum requirement of chemistry courses. At the minimal level, the bachelor of arts program instructs the individual on what chemistry is about and, by suitable choice of courses, prepares the individual with a chemical background for work in other areas; for example, technical librarian, medical technologist, business administration, sales or advertising in the chemical industry and many others. The majority of students pursuing the bachelor of arts in chemistry do so in preparation for graduate work in medicine, pharmacy, etc. At levels appreciably above the minimum, the individual may achieve a background in chemistry equivalent to that for the bachelor of science degree but involving a program 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

There are no special prerequisites, other than University of Missouri admission requirements, for beginning either the bachelor of arts or the bachelor of science program, but 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, is highly structured in the order in which various chemistry courses must be taken. It is assumed that transfer students and junior college students will have begun the appropriate course sequence in their initial schools. Transfer students are required to consult with a chemistry faculty 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.

#### 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.

#### Bachelor of Science: Chemistry

#### Degree Requirements

The Chemistry Department, which is approved by the American Chemical Society, requires those students who desire a bachelor of science degree with a major in chemistry to follow a program that is acceptable to the society. This program includes:

1. General chemistry (CHEM 211, 211L, 212R and 212LR, or H214 and H214L);  
2. Organic chemistry (CHEM 321, 321L, 322R, 322L);  
3. Analytical chemistry (CHEM 341, 442R);  
4. Physical chemistry (CHEM 431, 437WI [writing intensive], 432);  
5. Chemical literature (CHEM 410);  
6. Inorganic chemistry (CHEM 382*, 451R);  
7. A biochemistry course* (CHEM 367) or (LS BIOCHEM numbered 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 250;  
10. One year of engineering physics;
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. A minimum of a 2.0 grade-point average must be earned in chemistry courses;
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 of the instructor and the Chemistry Undergraduate Adviser to waive this requirement;
15. Each chemistry major must be advised by the Chemistry Undergraduate Adviser every semester.

* There are two types of B.S. degrees 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 BIOCHEM 341. The other type of B.S. degree does not require CHEM 382 or CHEM 367, or LS BIOCHEM 341.

**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 requirements in the major for the bachelor of science degree in chemistry:

<table>
<thead>
<tr>
<th>Chemistry Courses</th>
<th>Courses in Other Disciplines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td></td>
</tr>
<tr>
<td>CHEM 211 (4)</td>
<td>MATH 210 (4)</td>
</tr>
<tr>
<td>CHEM 211L (1)</td>
<td>MATH 220 (4)</td>
</tr>
<tr>
<td>CHEM 212R (4)</td>
<td></td>
</tr>
<tr>
<td>CHEM 212LR (1)</td>
<td></td>
</tr>
<tr>
<td>Sophomore</td>
<td></td>
</tr>
<tr>
<td>CHEM 321 (3)</td>
<td>MATH 250 (4)</td>
</tr>
<tr>
<td>CHEM 321L (1)</td>
<td>PHYSCS 240 (5)</td>
</tr>
<tr>
<td>CHEM 322R (3)</td>
<td>PHYSCS 250 (5)</td>
</tr>
<tr>
<td>CHEM 322L (1)</td>
<td></td>
</tr>
<tr>
<td>Junior</td>
<td></td>
</tr>
<tr>
<td>CHEM 341 (4)</td>
<td>4XX+ in CHEM (3)</td>
</tr>
<tr>
<td>CHEM 431 (3)</td>
<td>or</td>
</tr>
<tr>
<td>CHEM 432 (3)</td>
<td>3XX+ in BIOL,</td>
</tr>
<tr>
<td>CHEM 442R (3)</td>
<td>PHYSCS or</td>
</tr>
<tr>
<td>CHEM 437WI (3)</td>
<td>MATH (3)</td>
</tr>
<tr>
<td>Senior</td>
<td></td>
</tr>
<tr>
<td>CHEM 367* (3)</td>
<td>or LS BIOCHEM 341* (3)</td>
</tr>
<tr>
<td>CHEM 382* (2)</td>
<td></td>
</tr>
<tr>
<td>CHEM 499 (2)</td>
<td></td>
</tr>
<tr>
<td>CHEM 410 (1)</td>
<td></td>
</tr>
<tr>
<td>CHEM 451R (3)</td>
<td></td>
</tr>
</tbody>
</table>

Total Chemistry Credit Hours: 43

*For ACS-approved degree.

**Bachelor of Arts: Chemistry**

**Degree Requirements**

The minimum departmental requirements for this degree are:

1. The equivalent of one year of general chemistry (CHEM 211, 211L, 212R and 212LR, or CHEM H214 and H214L).
2. Physics 210, 220 and MATH 110.
3. CHEM 341WI (writing intensive).
4. Any combination of 300-level and 400-level chemistry courses (exceptions noted below; see 5, 6 and 7) 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, 399, 495, and 499 may be used in meeting the major course requirements.
6. CHEM 320 and 321 may not both be counted toward the required number of credit hours. (CHEM 320 + 322R and CHEM 320 + 322R are both acceptable combinations for meeting, in part, the bachelor of arts departmental course requirements, although the 320 + 322R combination is not preferred. The combinations CHEM 320 + 321 and CHEM 320 + 321 + 322R are not acceptable.)
7. Similarly, either CHEM 330 or the combination CHEM 431 + 432 is acceptable, but the combination CHEM 330 + 431 + 432 is not acceptable.
8. A minimum of a 2.0 grade-point average must be earned in chemistry courses.
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.

**Suggested Plan of Study**

Because of the diversity of acceptable bachelor of arts programs available, a plan of study is developed by the student and the department’s principal undergraduate adviser. The student is cautioned, however, that certain chemistry (and other) courses must be taken in appropriate sequence. Hence, the student is urged to consult a chemistry adviser early in planning a program of study.

For students starting at UMKC as freshmen, the department recommends the following plan of study to fulfill degree requirements for the bachelor of arts degree in chemistry:

<table>
<thead>
<tr>
<th>B.A. Degree Chemistry</th>
<th>B.A. Degree Other Disciplines</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 211 (4)</td>
<td>MATH 110 (3)</td>
</tr>
<tr>
<td>CHEM 211L (1)</td>
<td>PHYSCS 210 (4)</td>
</tr>
<tr>
<td>CHEM 212R (4)</td>
<td>PHYSCS 220 (4)</td>
</tr>
<tr>
<td>CHEM 212LR (1)</td>
<td></td>
</tr>
<tr>
<td>CHEM 341WI (4)</td>
<td></td>
</tr>
<tr>
<td>CHEM 320 (4)</td>
<td>CHEM 320L (1)</td>
</tr>
<tr>
<td>CHEM 321 (3)</td>
<td>-or-</td>
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<tr>
<td>CHEM 321L (1)</td>
<td>CHEM 321L (1)</td>
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<tr>
<td>CHEM 322R (3)</td>
<td>CHEM 322R (3)</td>
</tr>
<tr>
<td>CHEM 322L (1)</td>
<td>CHEM 322L (1)</td>
</tr>
<tr>
<td>other CHEM (3)</td>
<td>other CHEM (3)</td>
</tr>
<tr>
<td>other CHEM (3)</td>
<td>other CHEM (1 or more)</td>
</tr>
</tbody>
</table>

Total Chemistry Credit Hours: 26 (or more)
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 9 hour requirement for a minor in Chemistry, 6 of the 9 must be 300-400 level courses offered by the Department of Chemistry at UMKC. In addition, the courses must be selected from more than one area of chemistry and a minimum 2.0 grade-point average must be obtained for all chemistry courses applied to the minor. For chemistry minors, a minimum grade of C- is required for all prerequisite courses.

Chemistry Courses

H399 Introduction to Research (1-3). 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

111 Physical Basis of Chemistry (4). An introductory course in the basic principles applicable to chemistry for students who intend to take but are not adequately prepared to take Chemistry 211. The emphasis is on quantitative relationships and problem solving. Corequisite: Math 110 or equivalent. Fall.

115 Elements of Chemistry I (4). 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: Chemistry 115L. Three hours of lecture each week, one hour of discussion each week. Fall, Winter.

115L Elements of Chemistry, Laboratory (1). 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: Chemistry 115. One three hour laboratory period each week. Fall, Winter.

160 Chemistry, Society, and the Environment (3). 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.

160L Laboratory for Chemistry, Society, and the Environment (1). 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.

206 Human Nutrition (3). 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.

211 General Chemistry I (4). Stoichiometry, atomic structure, states of matter, thermodynamics, equilibrium, and kinetics. Prerequisite or corequisite: Math 120. Corequisite: Chemistry 211L. Three lecture hours and one hour discussion each week. Each term.

211L Experimental General Chemistry I (1). Introduction to the laboratory techniques used in studying the chemical properties of substances. Some quantitative techniques are included. Prerequisite: Chemistry 211. Three hours per week. Each term.

212R Experimental General Chemistry II (1). Introduction to analysis and synthesis. Descriptive chemistry of the more common elements. Chemistry 212LR must be taken concurrently with Chemistry 212R. Three hours per week. Each term.

212R General Chemistry II (4). Chemical equilibrium, directed valence, inorganic, organic, polymer, and radiochemistry. Prerequisite: Chemistry 211 or equivalent. Prerequisite or corequisite: Math 120 or equivalent and Chemistry 212LR. Introductory course to all advanced work in chemistry. Three lecture hours and one hour discussion each week. Each term.

311 Laboratory Safety and Health I (1). An introduction to laboratory safety and health. Topics to be discussed include good laboratory practice; laboratory hazards; safe chemical handling, storage and disposal; first aid; protective equipment; and federal regulations. Prerequisite: Chemistry 320 or 321, or equivalent. Fall.

320 Elementary Organic Chemistry (4). 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: Chemistry 212R or Chemistry H214. Corequisite: Chemistry 320L. Four hours lecture each term. Offered: Each term.

320L Experimental Organic Chemistry I. An experimental organic chemistry course intended to teach basic laboratory operations. Prerequisite: Chemistry 212 or Chemistry H214. Corequisite: Chemistry 320. Three hours of laboratory a week. Offered: Each term.

321 Organic Chemistry I (3). The two terms (Chemistry 321, 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. Prerequisite: Chemistry 212R or H214. Each term.

321L Organic Chemistry Laboratory I (1). 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 212 AND CHEM 212L. Corequisite: CHEM 321.

322L Organic Chemistry Laboratory II (1). CHEM 322L is an extension of CHEM 321L. Chemistry 322L builds from the basic techniques, procedures, and writing to more advanced organic operations. Prerequisite: CHEM 321L. Corequisite: CHEM 322. Offered: Each term.


330 Elementary Physical Chemistry (3). An introductory course in the principles of physical chemistry for students who have not had calculus. Prerequisites: Chemistry 320, 322R or H322R, college physics, and a good background in algebra and trigonometry. Three lecture hours a week. Fall.

341 Analytical Chemistry I: Quantitative Analysis (4). Principles of gravimetric, volumetric, electrocyclic, and other methods of analysis. Prerequisites: Chemistry 212L or Chemistry H214, and Math 120. Two lectures and six laboratory hours a week. Offered: Every Fall; Winter term in odd years.

341W1 Analytical Chemistry I: Quantitative Analysis (4). Principles of gravimetric, volumetric, electrocyclic, and other methods of analysis. Satisfies writing intensive requirement for the B.A. or B.S. degree. Prerequisites: Chem 212R or Chem H214, Math 120. Offered: Every Fall; Winter term in odd years.

345R Instrumental Analysis (3). 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: Chemistry 320, 341, or their equivalents. (Does not meet requirements for an A.C.S. certified degree). Two lectures and three laboratory hours each week.

367 Bioorganic Chemistry (3). 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.

378 Introduction to Macromolecules (2-3). Properties and laboratory characterization of macromolecules. Introduction to modern laboratory methods for investigation of synthetic and biopolymers in solution and the solid state. This course does not fulfill requirements for the B.S. in chemistry. Corequisite or prerequisites: Chemistry 320 or 322R or 341 or equivalents. One lecture hour and six laboratory hours. (Can be taken for two credit hours with reduced contact hours by special arrangement).

382 Inorganic and Organic Synthesis (2). A number of inorganic, organic, and organometallic compounds will be prepared using a variety of synthetic techniques. Prerequisite or corequisite: CHEM 322R. Offered: Winter.

387 Environmental Chemistry I (3). 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.

388 Environmental Chemistry II (3). 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.

390 Special Topics in Chemistry (1-3). This course will focus on an area of chemistry of contemporary significance. The amount of credit is to be determined by arrangement with the department. May be repeated for credit when the topic varies but no more than three hours of credit may be applied to major course requirements. Prerequisites: Consent of instructor and either Chemistry 320, 322R or H322R. On demand.
Directed Readings in Chemistry (1-3). 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: Chemistry 212R or H214 and permission of the cooperating faculty member. By arrangement.

Introduction to Research (1-3). 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

Physical Chemistry I (3). Principles of physical chemistry, including thermodynamics, and an introduction to statistical thermodynamics, quantum chemistry, chemical dynamics, molecular spectroscopy and structure. Prerequisites: Physics 220 or preferably Physics 250. Prerequisite or corequisite: Math 250. Fall.

Physical Chemistry II (3). Continuation of Chemistry 431. Prerequisite: Chemistry 431. Winter.

Molecular Spectroscopy (3). A theoretical introduction to molecular spectroscopy and its relation to structure. Electronic, vibrational and rotational spectra of chemical systems will be discussed. Prerequisite: Chemistry 432 or consent of instructor. Offered: Fall term.

Experimental Physical Chemistry I (3). Experimental methods in physical chemistry. One hour of lecture and six hours of laboratory each week. Prerequisite or corequisite: Chemistry 431. Offered: Winter term.

Experimental Physical Chemistry I (3). 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: Chem 431. Offered: Winter Semester.

Experimental Physical Chemistry II (3). Experimental methods in physical chemistry. One hour of lecture and six hours of laboratory each week. Prerequisite: Chemistry 437.

Analytical Chemistry II: Instrumental Analysis (3). A continuation of Chemistry 341. The experimental and theoretical aspects of optical and electrochemical, chromatographic and other physicochemical methods of analysis. Prerequisite: Chemistry 341. Prerequisite or corequisite: Chemistry 432. Two lectures and four hours laboratory a week. Winter.

Inorganic Chemistry (3). Modern concepts and theories of inorganic chemistry. Prerequisite or corequisite: Chemistry 432. Three lecture hours each week. Winter.

Introduction to Polymer Chemistry (3). 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: Chemistry 432 or approval of instructor. Three lecture hours a week. Fall.

Characterization of Macromolecules (3). Theory and laboratory characterization of macromolecules. Study and use of modern laboratory methods for separation and elucidation of structure, size, shape and homogeneity of synthetic and biopolymers in solution, and/or thermal, electrical, mechanical and spectral properties in the solid state. Prerequisite: Chemistry 431. One lecture and six laboratory hours.

Computer Applications to Chemical Problems (3). 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: Chemistry 320 or Chemistry 322R.

Special Topics in Chemistry (1-3). 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: Chemistry 431. On demand.

Directed Readings in Chemistry (1-3). 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: Chemistry 432 and permission of the cooperating faculty member. By arrangement.

Senior Research (1-9). 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

Experimental General Chemistry II-Honors (1). An alternative laboratory experience to Chemistry 212LR, for those students gifted in laboratory skills and interested in working in a research lab setting. By arrangement. Winter.

Experimental General Chemistry - Honors (5). An accelerated course in general chemistry. Topics to be covered include stoichiometry, atomic and molecular structure, bonding, equilibrium, thermodynamics, descriptive inorganic chemistry, organic and biochemistry. A strong background in high school chemistry and mathematics is recommended. Admission by placement exam. Four lecture hours and one discussion hour per week. Students taking Chemistry H214 should also enroll in Chemistry H214L. Chemistry H214 fulfills the same requirements as Chemistry 211L and Chemistry 212R. Fall.

Intensive General Chemistry Lab - Honors (2). A chemistry laboratory course designed to correlate with Chemistry H214. Introduction to and review of laboratory techniques used to study chemical properties of matter. Quantitative, qualitative and synthetic procedures are emphasized. Must be taken concurrently with Chemistry H214. Four hours per week. Fall.

Organic Chemistry I - Honors (3). A more intense version of Chemistry 321. See course description for Chemistry 321 for details. Prerequisite: A grade of A in Chemistry H214 or in Chemistry 212R. Fall.


Organic Chemistry Laboratory II-Honors (2). A more intense version of Chemistry 322L. See course description for Chemistry 322L. Prerequisite: Chemistry 321L.


Senior Research - Honors (1-9). Course frequency subject to enrollments, staffing and financial exigency.
Classical and Ancient Studies Concentration and Minor

(816) 235-1308
http://iml.umkc.edu/classics

Faculty Coordinators:
Jeff Rydberg-Cox
James Falls

Program Description
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 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

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:
ENGL 318 Bible as Literature
ENGL 319 Myth and Literature
ENGL 445 History and Principles of Rhetoric
(with approval of program coordinators)

History:
HIST 428B Women in Medicine: Patients and Practitioners from Antiquity to Present
(with approval of program coordinators)
HIST 469 Archaeology and Biblical History
HIST 470 Ancient Egypt
HIST 471 Ancient Greece
HIST 472 Ancient Rome
HIST 475WI History of Ancient Israel

Philosophy:
PHIL 210 Foundations of Philosophy
(with approval of program coordinators)
PHIL 310WI Ancient Philosophy
PHIL 430 Plato
PHIL 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 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 490 Advanced Special Readings in Greek

Cluster Courses:
Clio and the Other Muses: History and Culture in 5th Century Athens
Women in the Ancient World
Roman Revolution: History and Culture from the Gracchi to Augustus
Alexander the Great and the Hellenistic Age

Any special readings course in Art History, English, History, or Philosophy must be approved by the program coordinators.
Department of Communication Studies

202 Haag Hall
5120 Rockhill Road
(816) 235-1337
Fax: (816) 235-5539
com-s@umkc.edu
http://www.umkc.edu/com-s

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Department of Communication Studies
HH 202
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
G. Thomas Poe

Professors Emeriti:
Robin M. League, Gaylord V. Marr, Gregory Black

Professors:
Joan E. Aitken, Michael R. Neer, Robert Unger

Associate Professors:
Linda M. Collier (director of debate), Gregory Gutenko, Carol Koehler, G. Thomas Poe

Assistant Professors:
Angela Elam, Daven Gee, Judith K. McCormick, Peter Morello

Instructors
Linda Kurz (principal undergraduate adviser)

Department Description
The department offers courses leading to a bachelor of arts in communication studies. The department's program reflects practical and theoretical aspects of human communication behavior within the context of liberal arts and sciences.

The bachelor of arts in communication studies degree offers two formal areas of emphasis –

- Speech communication (interpersonal and public communication)
- Mass communication (media studies and media production).

The speech communication emphasis (interpersonal and public communication) offers study in the areas of public address and rhetoric, interpersonal and intercultural communication, organizational communication and areas associated with human communication behavior.

The mass communication emphasis (media studies) offers concentrated study in select areas including radio, television, film, public relations and advertising. The mass communication emphasis (media production) offers a comprehensive approach to film, 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, and iMovie) 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 also is 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. The Kansas City Area Broadcasters support a cash award yearly to a qualifying student interested in radio broadcasting as a career. The Faye Kircher Public Speaking Contest is held in the Fall and Winter 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

The department provides a multidisciplinary approach so students can satisfy their educational and occupational needs across multiple, firmly grounded degree tracks. Regardless of the area of concentration, 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 ComS elective credit. At least 18 of 30 credit hours must be at the 300- or 400-level.

## Required Core Courses: (9 Hours) Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 110</td>
<td>Fundamentals of Effective Speaking and Listening</td>
<td>3</td>
</tr>
<tr>
<td>COMS 308</td>
<td>Introduction to the Study of Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMS 483</td>
<td>Seminar in Communication Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

The program of study for the bachelor of arts in communication studies consists of 33 total credit hours. Students are advised to work closely with a departmental adviser in designing an undergraduate program of study for their concentration area. Only three credit hours within the 33 hours for a major may be taken in one-hour courses. Each concentration area 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

In addition to the department’s nine hours of core courses, three hours of interpersonal and three hours of public communication courses are required. Nine hours of interpersonal and public electives are also required. Nine hours of departmental electives complete the concentration for a total of 33 credit hours.

### Interpersonal Communication: (3 Hours) Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 343</td>
<td>Group Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>COMS 344/WI</td>
<td>Communication in Organizational Settings</td>
<td>3</td>
</tr>
<tr>
<td>COMS 377/WI</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMS 378</td>
<td>Computer-Mediated Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMS 431</td>
<td>Colloquium in Interpersonal Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>COMS 444/WI</td>
<td>Intercultural Communication</td>
<td>3</td>
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</table>

### Public Communication: (3 Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>COMS 213</td>
<td>Argumentation and Critical Thought</td>
<td>3</td>
</tr>
<tr>
<td>COMS 312</td>
<td>Advanced Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COMS 317</td>
<td>Persuasion</td>
<td>3</td>
</tr>
<tr>
<td>COMS 341/WI</td>
<td>Rhetorical Theory and Criticism</td>
<td>3</td>
</tr>
<tr>
<td>COMS 446</td>
<td>Principles of Advertising</td>
<td>3</td>
</tr>
<tr>
<td>COMS 448</td>
<td>Principles of Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>COMS 484</td>
<td>Communication Studies Activities</td>
<td>1-4</td>
</tr>
</tbody>
</table>

## Media Studies Electives: (12 Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>COMS 220</td>
<td>Modern Communications Media</td>
<td>3</td>
</tr>
<tr>
<td>COMS 250</td>
<td>Introduction to Film and Video Methods</td>
<td>3</td>
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</tbody>
</table>

### Media Studies Electives: (15 Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>COMS 303</td>
<td>Introduction to Journalism</td>
<td>3</td>
</tr>
<tr>
<td>COMS 311</td>
<td>Radio &amp; Television Performance</td>
<td>3</td>
</tr>
<tr>
<td>COMS 314/WI</td>
<td>Reporting</td>
<td>3</td>
</tr>
<tr>
<td>COMS 320</td>
<td>Mass Media, Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>COMS 339</td>
<td>Film Theory and Criticism</td>
<td>3</td>
</tr>
<tr>
<td>COMS 341/WI</td>
<td>Rhetorical Theory and Criticism</td>
<td>3</td>
</tr>
<tr>
<td>COMS 351/WI</td>
<td>Fundamentals of Writing for the Media</td>
<td>3</td>
</tr>
<tr>
<td>COMS 356</td>
<td>Fundamentals of Writing</td>
<td>3</td>
</tr>
<tr>
<td>COMS 383</td>
<td>Documentary Film</td>
<td>3</td>
</tr>
<tr>
<td>COMS 400</td>
<td>Special Studies</td>
<td>1-3</td>
</tr>
<tr>
<td>COMS 402</td>
<td>American Social Film: Silver Screen &amp; American Dream</td>
<td>3</td>
</tr>
<tr>
<td>COMS 432</td>
<td>Press, Politics and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>COMS 446</td>
<td>Principles of Advertising</td>
<td>3</td>
</tr>
<tr>
<td>COMS 448</td>
<td>Principles of Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>COMS 456</td>
<td>Electronic Journalism</td>
<td>3</td>
</tr>
<tr>
<td>COMS 462</td>
<td>Public Broadcasting</td>
<td>3</td>
</tr>
<tr>
<td>COMS 466</td>
<td>Electronic Journalism</td>
<td>3</td>
</tr>
<tr>
<td>COMS 478</td>
<td>Communication Law</td>
<td>3</td>
</tr>
<tr>
<td>COMS 484</td>
<td>Communication Studies Activities</td>
<td>1-4</td>
</tr>
</tbody>
</table>

## Media Production

In addition to the 9 credit hours of core courses, there is a three-hour prerequisite (COMS 250), six hours of required coursework (chosen from COMS 220/COMS339, COMS376, COMS384) and 15 hours of media production electives for a total of 33 credit hours.

### Prerequisite: (3 Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>COMS 250</td>
<td>Introduction to Film and Video Methods</td>
<td>3</td>
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</tbody>
</table>

### Required Courses: (6 Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>COMS 220</td>
<td>Modern Communications Media</td>
<td>3</td>
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### OR-

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>COMS 339</td>
<td>Film Theory and Criticism</td>
<td>3</td>
</tr>
<tr>
<td>COMS 376</td>
<td>History of the Film Industry</td>
<td>3</td>
</tr>
<tr>
<td>COMS 384</td>
<td>Documentary Film</td>
<td>3</td>
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</table>

## Interpersonal and Public Electives: (9 Hours)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>COMS 213</td>
<td>Argumentation and Critical Thought</td>
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<td>Advanced Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COMS 317</td>
<td>Persuasion</td>
<td>3</td>
</tr>
<tr>
<td>COMS 341/WI</td>
<td>Rhetorical Theory and Criticism</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor in Communication Studies
A minor in communication studies may be earned by completing two required courses (COMS 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.

Required Courses: (6 Hours)
- COMS 110 Fundamentals of Effective Speaking and Listening 3
- COMS 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)
- COMS 376 History of the American Film Industry 3
- COMS 339 Film Theory & Criticism 3

Electives: (12 hours)
- COMS 320 Mass Media, Culture & Society 3
- COMS 400 Special Studies in Film Topics 1-3
- COMS 402CD Silver Screen & American Dream (also available as ENGL 300CD or HIST 300CD) 3
- COMS 454 Screenwriting 3
- COMS 351WI Writing for the Media 3
- COMS 384 Documentary Film 3
- COMS 250 Introduction to Film and Video Methods 3
- COMS 373 Intermediate Film Production 3
- COMS 471 Advanced Media Production 3

Communication Studies Courses
110 Fundamentals of Effective Speaking and Listening (3). An introduction to the dimensions of effective platform speaking with special emphasis on interpersonal, interpersonal and public communication. Lecture. For non-majors only. Offered: Fall or Winter.

140 Principles of Communication (3). 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.

203 Introduction to Journalism (3). Readings from quality reporting by the best American journalists. Basic newswriting, style, techniques of interviews. Practical application in writing news and news feature articles. Also offered as English 203.

212 Argumentation and Debate (3). 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.

213 Argumentation and Critical Thought (3). 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 thinking, argumentation 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.

220 Introduction: Modern Communications Media (3). A comprehensive survey of the content, structure and control of the communications media in America society—newspaper, magazine, radio, television, providing an informative frame of reference that will enable discerning students to formulate and apply useful critical concepts in evaluating America’s media environment. Every semester.

250 Introduction to Film and Video Methods (3). 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: Fall, Winter, Summer

254P Communication Competence: Theory and Practice (4). 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 independent factors: (1) understanding the theoretical basis of effective communication behavior and (2) practical application of those principles in various communicative exercises. Offered: Summer.

265 Media Photoimaging (3). 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, processes, and principles involved in photographic direction and production supervision, and will also introduce the basics of image composition, manipulation, and quality control. Offered: Summer & Fall.

308 Introduction to the Study of Human Communication (3). 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. Prerequisites: COMS 110 (grade of C or better) Offered: Every semester

311 Radio & Television Performance (3). 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.

312 Advanced Public Speaking (3). Advanced study of rhetorical theory and its application to the presentation and criticism of public discourse. Prerequisite: Communication Studies 110. Offered: Fall & Winter.

314W Reporting (3). 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: ENG 110, 225, and successful completion of the WEPT.

317 Persuasion (3). A study of the rhetorical, psychological and ethical principles of influencing and controlling individuals and groups, and of the methods of adapting to various attitudes and audiences through the preparation, presentation and evaluation of persuasive speeches. Lecture, discussion and performance. Prerequisite: Communication Studies 110. Offered: On demand.

320 Mass Media, Culture and Society (3). 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 interdisciplinary sources, particularly “critical theory” semiotics, poststructuralism, psychoanalysis and ethnography. Term paper required.

Prerequisite: Communication Studies 308WI. Offered: Every semester.

322 Oral Performance in Speech Communication (3). 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 non-literary 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: ComS 110. Offered: Fall and Winter.

331WI Mass Media in America (3). 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.
339 Film Theory and Criticism (3). 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 advocacy as an art form and a reflection of a social system with national, cultural & sub-cultural components. Term required. Prerequisite(s): COMS 308WI or 320. Offered: Winter.

341 Rhetorical Theory and Criticism (3). 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.

341WI Rhetorical Theory and Criticism (3). 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. Offered: Winter.

344 Communication in Organizational Settings (3). 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. COMS 110 or 308WI. Offered: Fall/Winter.

344WI Communication in Organizational Settings (3). 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): 110 or 308WI and WEPT.

351WI Fundamentals of Writing for the Media (3). 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: Communication Studies 110 and successful completion of the WEPT. Offered: Fall and winter.


363 Radio Production I (3). 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: COMS 308WI. Offered: Fall.

371 Intermediate Video Production (3). 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 tools. Lecture, discussion, and laboratory. Prerequisite: COMS 270 and 351 Offered: Fall

376 History of the Film Industry (3). 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.

377 Interpersonal Communication (3). 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: COMS 308WI Offered: Fall and winter.

377WI Interpersonal Communication (3). 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.

378 Computer-Mediated Communication (3). 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

378WI Computer Mediated Communication (3). 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.

380 Contemporary Media Topics (3).

384 Documentary Film (3). 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, approaches, 3) forms, 4) production methodology and 5) experiences they offer to audiences. Prerequisites: None. Offered: Every winter.

390 Forensic Activities (1-4). Participation in the intercollegiate forensic program. A practicum in debate, discussion, oratory and other forensic activities. Prerequisite: Consent of instructor. Offered: Summer, fall, winter.

400 Special Studies (1-3). (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. Offered on demand.

400CB CC:The African Diaspora in the Arts and Culture (3). 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 the Greater Western Hemisphere, particularly the regions 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 Diaspora 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

4010 Cluster Course: American Social Film: Silver Screen & American Dream (3). 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.

431 Colloquium in Interpersonal Dynamics (3). An examination of the practical application of communication principles and theories, with focus on one of the following: health, organizational, nonverbal, intrapersonal, conflict management, computer mediated, or intercultural communication. Prerequisite: None Offered: On demand.

432 Press, Politics and Public Policy (3). Undergraduate component of Comm Studies 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.

444WI Intercultural Communication (3). 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.

446 Principles of Advertising (3). A survey of advertising as an industry and a career field, examining its history and development in America, and its application in mass and special media. Specific procedures are studied linking the development of advertising strategies, messages and campaigns to the marketing process, and for evaluation and selection of appropriate media to carry the advertising message.

448 Principles of Public Relations (3). 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.

454 Screenwriting (3). Study of the forms, techniques, and types of dramatic writing for the broadcast media, including analysis of dramatic structure and documentary procedures, with practical application of concepts through periodic writing assignments and critical analysis. Prerequisites: ComS 351 and consent of instructor. Fall.
456 Electronic Journalism (3). 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: Communication Studies 351. Fall and winter.

457 Producing and Distributing Media (3). 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

458WI Publicity, Promotion and the Media (3). 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: Communication Studies 351 and successful completion of the WEPT. Offered: Fall.

462 Public Broadcasting (3). 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: COMS 308WI AND 361. Offered: On demand.

466 Electronic Journalism Performance (3). An advanced study of television and Internet news gathering, field production and performance for electronic media. Prerequisite: Coms 456 Offered: Fall


471 Advanced Media Production (3). 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: Communication Studies 371, 470 or professional equivalents. Offered: On demand.

478 Communication Law (3). 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.

483 Research Seminar in Communication Studies (3). 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 COMS 308 and 344 and 12 additional hours of Communication Studies credits. Offered: Fall and Winter.

484 Communication Studies Activities (1-4). 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.

498 Special Problems in Communication Studies (1-6). 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.

H110 Fundamentals Effective Speaking/Listening - Honors (3).
Department of Economics

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(816) 235-1314
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economics@umkc.edu
http://www.umkc.edu/economics

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Administrative Assistant
Jennifer Harris, (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, Karen S. Vorst, L. Randall Wray

Associate Professors:
Peter J. Eaton, Mathew Forstater

Assistant Professors:
Stephanie Bell, Cornelia Wunsch (Assistant Research Professor)

Lecturers:
Judith Ancel, John Henry, Michael Kelsay, Ben Young

Research and Instructional Centers

Center for Economic Information:
Peter Eaton, director
Douglas Bowles, assistant director
Sara Ballew, programmer/analyst
Saima Sami, programmer/analyst
http://www.umkc.edu/cei

Center for Full Employment and Price Stability:
L. Randall Wray, senior research associate
http://www.cfeps.org

Center for Labor Studies:
Marcia Mayne, research associate

Institute for Labor Studies:
408D Royall Hall
800 E. 52nd Street
(816) 235-1470
http://www.umkc.edu/labor-ed

The Institute for Labor Studies provides labor education for the unions and working people of the Kansas City Metropolitan area. It is a joint project of UMKC and Longview Community College. At UMKC it is part of the Economics Department and offers a credit certificate in labor studies, which includes six courses. It also provides other labor education courses, both credit and non-credit, conferences, research projects and consulting. Special projects include a Labor in the Schools program and the Heartland Labor Forum, a weekly one-hour radio show on KKFI community radio.

Radio show on KKFI community radio.

In an effort to incorporate research into policy, the Center for Economic Information produces original research and sponsors national and international workshops on the use of full employment policies to achieve both economic growth and price stability. The Center funds doctoral assistantships in the department and provides financial support to faculty members participating in C-FEPS research at UMKC and other universities, such as Harvard University, New School University, University of Ottawa and others. The Center continues to add prominent faculty to its research staff. C-FEPS fully participates in the Interdisciplinary Ph.D. program and provides interdisciplinary research links among the faculty and students at the economics department, other social science departments at UMKC as well as among an international community of scholars concerned with the issues of full employment and price stability.

In an effort to incorporate research into policy, the Center sponsors interdisciplinary, non-partisan research, collaborates with universities, organizes symposia, conferences and lectures, and participates in community programs.

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). The department offers an M.A. degree, an M.A. applied degree in economics, and is a coordinating discipline in the doctoral interdisciplinary Ph.D. program. Most graduate courses are offered after 4 p.m.

The department houses a number of complementary academic centers and programs:

Center for Economic Information

211 Haag Hall
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.

Center for Full Employment and Price Stability

211 Haag Hall
5120 Rockhill Road
(816) 235-5835
http://www.cfeps.org

The Center for Full Employment and Price Stability is a non-partisan, non-profit policy institute at the University of Missouri-Kansas City dedicated to promoting research and public discussion of issues related to macroeconomic and monetary policy, especially employment and budgetary policy.

This national policy center produces original research and sponsors national and international workshops on the use of full employment policies to achieve both economic growth and price stability. The Center funds doctoral assistantships in the department and provides financial support to faculty members participating in C-FEPS research at UMKC and other universities, such as Harvard University, New School University, University of Ottawa and others. The Center continues to add prominent faculty to its research staff. C-FEPS fully participates in the Interdisciplinary Ph.D. program and provides interdisciplinary research links among the faculty and students at the economics department, other social science departments at UMKC as well as among an international community of scholars concerned with the issues of full employment and price stability.

In an effort to incorporate research into policy, the Center sponsors interdisciplinary, non-partisan research, collaborates with universities, organizes symposia, conferences and lectures, and participates in community programs.
Hospitality Studies Concentration
The hospitality studies concentration is housed administratively within the department. It provides students with the fundamentals of hospitality administration within a liberal arts program, drawing on the social science discipline.

Missouri Council for Economic Education
The department houses the Missouri Council for Economic Education. MCCEE 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 I. Ph.D. program. The SSC faculty is drawn from the departments of economics, political science and sociology.

Journal of Forensic Economics
The department sponsors the Journal of Forensic Economics, which is the journal of the National Association of Forensic Economics. Nancy Eldredge is the production editor for the journal and Jack Ward is the editor.

Our Students
The department provides undergraduate and graduate service courses to the College of Arts and Sciences, the Bloch School, and the School of Computing and Engineering. Undergraduate and graduate majors participate in a variety of visiting lecture programs and faculty colloquia through the Economics Club; Omicron Delta Epsilon, the economics honorary society; the Center for Full Employment and Price Stability; and the Social Science Consortium. Students publish their own academic journal. Enrollment is international, with current and former students representing more than 25 countries.

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 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, two associate professors, one assistant professor 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 offers graduate assistantships, augmented with additional funding through the Center for Full Employment and Price Stability and the Social Science Consortium.

The Department of Economics and the Center for Economic Information are housed in Haag Hall. The Center for Full Employment and Price Stability, 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://www.umkc.edu/economics; or sending an information request via e-mail to economics@umkc.edu.

For specific information on degree programs, contact Karen S. Vorst, Undergraduate Adviser (vorstk@umkc.edu or (816) 235-2838) or Frederic Lee, Graduate Admissions Adviser (leefs@umkc.edu or (816) 235-2543).

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 Center for Full Employment and Price Stability; and the Institute for Labor Studies.

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. Establish a nationally recognized academic reputation through the research output of the C-FEPS;
3. Develop a community service component of graduate education using an internship system;
4. Expand UMKC’s high-quality Interdisciplinary Ph.D. program, which uses the resources of the CEI, C-FEPS and extensive, applied research experience of the department’s faculty;
5. Maintain the highest standards of teaching quality in undergraduate and graduate programs.

Bachelor of Arts: Economics
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 Karen S. Vorst, (816) 235-2838, 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 grade-point average in economics and related courses. Graduate students in economics with a 3.0 average 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 grade-point average of 2.0 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, 202 Introduction to Economics I, 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 Economics 425. Economics 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 Economics 201, 202, 301, 302 and six hours in 300- to 400-level courses as 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 offers five PACE blocks leading to concentrations in human resources or commercial economics for working adults in a weeknight/weekend format. These blocks are:

- **Economics Principles Block** - offered fall (even years)
  - ECON 366 Art Markets
  - SOCS 395C Economics of Energy
  - ECON 202P Introduction to Economics II
  - ECON 395I Views of a Good Society
  - ECON 201 Introduction to Economics (Independent Study)
  - SOCS 397A The Economics of Public Process (Independent Study)

- **Macroeconomics Block** - offered winter (odd years)
  - ECON 301P Macroeconomic Analysis
  - ECON 406 History of Thought
  - ECON 331P Money and Banking
  - ECON 397C Current Macroeconomic Issues

- **Microeconomics Alpha Block** - offered summer (odd years)
  - ECON 302P Microeconomic Analysis
  - SOCS 397B The Economics of Public Process

- **Commercial Economics** - offered fall (odd years)
  - ECON 353 Financial Analysis and the Economy
  - SOCS 395B The Economics of the Law
  - ACCT 201 Principles of Accounting
  - SOCS 305P Economic Principles and Application of Accounting
  - ECON 403P Commercial Economic Applications

**Labor and Economics** - offered winter (even years)

- SOCS 348P Labor History and Economic Policy
- HIST 400Z Topics: KC Labor History
- ECON 486 Labor Economics
- SOCS 490C Readings in Labor Economics
- HUMN 401PW Culture of the Working Class

**Alpha Block I** - offered summer

- ECON 204P Principles of Economics (5)

**Economics Courses**

- **H201 Introduction to Economics I (3)**. Economics I deals primarily with macroeconomic or national economic concepts, the economics of the determination of recession, inflation, maintenance of full employment and economic growth, with an emphasis upon the economics of modern Keynesian analyses. It further introduces the economics of Marx and Ayres and discusses relevant and current economic issues. Economics 201 and 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every semester.

- **100 Economics Explained (3)**. Everything you need to know about how the economy works and where it’s going. This course simplifies and clarifies the vocabulary 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.

- **101 Essentials of American Capitalism (3)**. 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.

- **150 Introduction to Labor Studies (3)**. 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

- **201 Introduction to Economics I (3)**. Economics I deals primarily with macroeconomic or national economic concepts, the economics of the determination of recession, inflation, maintenance of full employment and economic growth, with an emphasis upon the economics of modern Keynesian analyses. It further introduces the economics of Marx and Ayres and discusses relevant and current economic issues. Economics 201 and 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every semester.

- **202 Introduction to Economics II (3)**. 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. Economics 201, 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every semester.

- **300CM Cluster Course: Mexico, Central America and the Human Condition (3)**. 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. (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.

- **300CS Cluster Course (3)**. 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.

- **301 Macroeconomic Analysis (3)**. 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. Every semester.

- **302 Microeconomic Analysis (3)**. 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.

303H Special Issues in Economic (3). 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 101 and 102. Semester offered: Fall

307 Radicals Economics (3). The course will cover the ideas that constitute radical economics. It will show how radical economics can be used to examine current economic and social problems, and will outline possible economic structures of utopian visions. Prerequisite: None Offered: every 2 years or on demand.

308 Challenges Facing the US Economy (3). 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

310 The United Nations: Politics and Economics (3). 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

312 Theory of Economic Development (3). Controversial problems affecting the nature, sources and process of development of industrial technology and the economy of private enterprise. On demand.

314 Race, Class And Gender: Theory, History, and Policy (3). 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

320 Environment, Resources and Economic Growth (3). 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: Economics 202. On request.

323P Administration in the Service Industry (4). 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

331 Money and Banking (3). 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. Prerequisite: Econ 301 or equivalent, or consent of instructor. Semester offered: Fall

336 The Kansas City Economy (3). 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, 201 or 202 Offered: Winter Restrictions: None

343P Resource Acquisition and Distribution in the Hospitality Industry (4). 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

353 Financial Analysis and the Economy (3). 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: Economics 201 and 202. Winter odd years.

366 Art Markets (3). 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.

395 Current Economic Issues (1). Each of these one-hour courses will deal with one selected topic. Students enrolled should have some background in the social sciences. A maximum of three Economics 395 courses will apply towards the department’s graduation requirements for a major.

395A Economic Issues (1).

395B The Economics of Law (1).

395C The Economics of Energy (1).

395D Economic Issues (1).

395E The Economics of Aging (1).

395F The Economics of Minorities (1).

395G The Economics of Poverty (1).

395H The Economics of the Arts (1). An analysis of the past and present policies regarding the financing of the Arts.

395I Views of a Good Society (1). 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

397A The Economics of Public Process & Private Choice I (1). This film/tape course and Economics 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.

397B The Economics of Public Process & Private Choice II (1). This film/tape course and Economics 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.

404R American Economic History Since 1865 (3). 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.

405 European Economic Systems (3). 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, 101, 201, or 202. Offered: Fall

406W1 History of Economic Thought (3). Analysis of basic concepts of economic thought, their historical sources and significance. Prerequisite: Successful completion of WEPT Test. Offered: Every semester

408 The Twentieth Century: Crisis in Eco History/Changing Eco Analysis (3). 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: Economics 201 and 202; Senior or Graduate standing.

412 International Trade and Development (3). 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: Economics 100

414 Problems in Latin American Development (3). 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: Economics 412 or consent of the instructor. On request.

416 Law and Economics (3). 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.

421 Mathematical Economics (3). 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: Economics 301, 302 and Math 210.

423P Legal & Social Issues of the Hospitality Industry (4). 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.

425 Intermediate Economic Statistics (3). 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: Economics 301, 302 and Math 235 or its equivalent. Semester offered: Every year.

431 Monetary Theory and Policy (3). 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: Economics 301. Every year.

433P Commercial Economics Aspects of the Hospitality Industry (4). 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.

435 Public Finance (3). 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: Economics 302. On request.

437 State and Local Government Finance (3). 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: Economics 302. On request.

438 Economic Policy (3). Analysis of the confluence of political and economic behavior, the economics of collective action. Prerequisites: Economics 301 and 302. On request.

442 International Finance (3). 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.


450R Regional Economics (3). Contemporary policy approaches to regional growth and decline are analyzed in this course. Prerequisite: Economics 302 Semester offered: On request.

451 Institutional Economic Theory (3). Analysis of impact of modern philosophy and developments in social sciences on economic theory. Prerequisites: Economics 301, 302 or consent. Semester offered: Every semester.

458 Urban Economics (3). 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: Economics 302 or its equivalent, or by special permission of the instructor. On request.


461 Public Utility Economics (3). 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.

465 The Economics of Health and Medicine (3). 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.

480 Managerial Economics and Operations Analysis (3). 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.

486 Labor Economics (3). 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: Economics 302. On request.

487 History of Labor Movements (3). 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.

487H Human Resource Economics (3). 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.

490 Readings In Economics (1-3). 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.

495 Colloquium in Economics (3). 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: Economics 201, 202. On request.

497 Internship (3). The course allows the student to participate in cognate approved internships of a professional nature. Prerequisite: Senior or graduate standing. Offered by permission only.

499W1 Capstone Colloquim (3). 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. Semester offered: Every semester.
Department of English Language and Literature

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University of Missouri-Kansas City
Department of English Language and Literature
CH 106
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Interim Department Chair: Karen Vorst
Professors Emeriti: Robert M. Farnsworth, 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: Joan F. Dean, Moira Ferguson (Martha Jane Starr Phillips/Missouri Distinguished Professor of Women’s and Gender Studies), Thomas Stroik (principal undergraduate adviser)
Associate Professors: Michelle Boisseau (coordinator, creative writing; associate editor, BkMk Press), Stephen Dils (director, composition), Jane Greer, Daniel Mahala (director, Council on Reading and Writing), Barbara Ryan
Assistant Professors: Kimberly Banks, Virginia Blanton, Laurie Ellinghausen, Daniella Mallinick, Jennifer Phegley (principal graduate adviser), Michael Pritchett, Jeffrey Rydberg-Cox, Robert Stewart (editor, New Letters/BkMk Press), George Williams
Full-time Lecturers: Melanie Burdick, Sheila Honig, Maureen Maginn

Department Description
The Department of English Language and Literature offers programs of study that lead to the bachelor of arts and the master of arts 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. Two English minors are offered to students majoring in other disciplines. English is an academic discipline eligible for full participation in the University’s Interdisciplinary Ph.D. program.

The department 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.

Special Resources
Publications
The department 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 English Language and Literature Department 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, 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 school year. The GKCWP is an official National Writing Project affiliate.

Related Information, Opportunities and Conferences
Students preparing for a career in journalism should seek experience with the University News and apprentice programs offered by The Kansas City Star and other regional communications firms.

The English Language and Literature Department offers courses and an annual conference for English teachers as part of its continuing education function. It also sponsors a writers’ reading series, two summer creative writing workshops (the Mark Twain Workshop and the New Letters weekend 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 sponsors additional scholarships for creative writers in the names of former students: Mbeembe, Gary William Barger and Crystal Field.

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 teaching careers, 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 Thomas Stroik, the departmental undergraduate faculty adviser.

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.

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 Bachelor of Arts in English**

The bachelor of arts in English is designed for students desiring a broad general background in English and American literature*. To receive a B.A. in English, students must complete the following 33-hour program**. At least 27 of the 33 required credit hours listed below must be taken within the English department at UMKC:

1. All of the following: English 311, 317, 321, 323, 327 (15 hours).
2. One of the following: English 310, 320, 330, 400CH, 445, 470 (3 hours).
3. Four 300/400-level courses, at least two of which cover periods prior to 1900 (excluding English 311 and 323)**. No more than one course in creative writing (312, 315, 429, 432, 435) and no courses in journalism (313WI, 401WI, 402) or expository writing (301WI, 304WI, 305WI, 403WI, 430WI, 448, 449, 450) may be counted toward the basic 33-hour requirement for the regular English major (12 hours).
4. Capstone Experience: English 432, 435, 499, or a 400/500-level course (3 hours) (requires approval of instructor and principal undergraduate adviser).

* 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.
** English courses in which students receive a grade below C- will not count toward fulfilling this requirement.
*** The following courses are acceptable for pre-1900 credit: English 318, 319, 350, 355, 400CF, 400CA, 412, 413, 414, 415, 416, 418, 422, 423, 425, 426, 451, 452, 455, 461, 462.

**Requirements for the Creative Writing Emphasis**

Students seeking a B.A. in English may also select an emphasis in creative writing.

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:**

1. One of the following genre courses: English 213, 214, or 215 (3 hours).
2. Two of the following literature surveys (students must complete a sequence): English 311/321, 317/327, or 331/333 (6 hours).
3. English 323: Shakespearean Literature (3 hours).
4. One of the following linguistics courses: English 310, 320, 330, 400CH, 445, or 470 (3 hours).
6. Four writing courses, including a 6-hour sequence in poetry writing or prose writing.
7. Capstone Experience: English 432, 435, 499***, or a 400/500-level course (requires approval of instructor and principal undergraduate adviser).

** English courses in which students receive a grade below C- will not count toward fulfilling this requirement.
*** Students must complete the 312/432 or 315/435 sequence before applying to the instructor for permission to take this course.

**Minors in English**

**Writing Minor**

The minor in writing consists of 18 hours in various types of writing courses: English 225 and five of the following: Theater 437, English 203, 301WI, 302WI, 304WI, 305WI, 312, 313WI, 315, 401, 403WI, 429, 430WI, 432, 435, 450.

**English Language and Literature Minor**

The minor in language and literature, which consists of 21 hours, is designed for students desiring a general background in English. Students must take the following courses:

1. All of the following: English 311, 317, and 323 (9 hours).
2. One of the following: English 213, 214, 215, 321 or 327 (3 hours).
3. Either English 320 or 330 (3 hours).
4. Two additional courses must be taken. One of these must be at the 300 level or above and must cover a literary period prior to 1900 (excluding 311 and 323) (6 hours).

**Note:** No courses in journalism (English 203, 313WI, 401, 402, 448, 449, 450), or expository writing (English 301WI, 304WI, 305WI, 430WI), and no more than one course in creative writing (312, 315, 429, 432, 435) may be counted toward the 21-hour minor.

**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.

**Honor's 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, as well as the on-campus facilities of the national literary journal *New Letters* and literary publisher BkMk Press, students may gain experience in writing and editing. With the approval of the supervising faculty, students may intern with these on-campus media for credit and also may serve on the staff of the student literary journal, *Number One*.

**English Courses**

**H341 Women in Literature** (3). A study of the treatment of women in literature by both male and female writers. The course will focus on gender-related questions of content and style, in an attempt to come to a clearer understanding of both the myths and realities of women’s place, in past and present writings of western culture. Offered: On demand.

**100 Introductory Writing** (3). 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
100B Academic Speaking & Listening for Non-native Speakers I (3). The study and practice of speaking and listening for basic social functions in English. Exercises focus on the development of oral/aural skills for beginning ESL students. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisite: Applied Language Institute approval. Offered: Every semester.

101C Academic Reading & Vocabulary for Non-native Speakers I (3). The study and practice of reading narrative and expository texts and standard 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.

101D Academic Writing for Non-native Speakers I (3). The study and practice of basic writing skills including handwriting, spelling, capitalization and punctuation. Frequent 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.

101G Academic Grammar for Non-native Speakers I (3). 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.

102B Academic Speaking & Listening for Non-native Speakers II (3). The study and practice of speech in environments such as the classroom, work, and simple social occasions. Exercises focus on students’ 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. Prerequisite: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

102C Academic Reading & Vocabulary for Non-native Speakers II (3). 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 ideas, 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.

102D Academic Writing for Non-native Speakers II (3). 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.

102G Academic Grammar for Non-native Speakers II (3). The study and practical appreciation of complex grammar 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 carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer.

103B Academic Speaking & Listening for Non-native Speakers III (3). 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.

103C Academic Reading & Vocabulary for Non-native Speakers III (3). 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.

103D Academic Writing for Non-native Speakers III (3). The study and practice of writing multiple paragraphs in English. Exercises focus on the practical application of complex sentence structures, including perfect and 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.

103G Academic Grammar for Non-native Speakers IV (3). The study and practical application of complex sentence structures, including perfect and 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.

104B Academic Speaking & Listening for Non-native Speakers IV (3). 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 Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

104C Advanced Academic English Reading for Non-native Speakers IV (3). 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 practical application skills in reading academic articles. Prerequisites: Completion of English 103C with a grade of B or better or Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

104D Academic Writing for Non-native speakers IV (3). 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.

104G Advanced Academic English Grammar for Non-native Speakers IV (3). 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.

105A Advanced Academic English (Multiskills) for Non-native Speakers V (3). 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.
110A Freshman English I for Non-native Speakers (3). 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.

203 Introduction to Journalism (3). Readings from quality reporting in the best American newspapers. Basic newswriting, style, techniques of interviewing. Practical application in writing news and news feature articles for newspapers.

204 Writing about Literature (1). 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.

213 Introduction to Drama (2-3). 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 on the campus.

214 Introduction to Fiction (3). 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. Writing assignments are designed to aid in the understanding of the structure and content of the material covered. Every semester.

215 Introduction to Poetry (3). 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.

225 English II (3). The study and practice of expository writing and analytical and critical reading. The writing focus is on kinds of organization, diction, style, etc. more sophisticated than those practices in Freshman English I. Frequent research projects, expository completion. Some 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 WEP requirement for graduation, however, and renders students eligible to enroll in courses designated Writing Intensive (WI). Does not count toward graduation.

300CD Cluster Course: American Social Film:Silver Screen&American Dream (3). 300CE Cluster Course: Radical Changes Since 1945 (3). This cluster will focus on modernism, postmodernism 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.

300CO Cluster Course: Issues in Death and Dying (3). This course will introduce students to several literary genres as well as to the techniques of careful reading and clear writing. Students in this course will be exposed to a broad selection of texts, which will be discussed individually as they relate various approaches to the subject of death and dying. By focusing on this subject from a literary perspective students will be able to study the topic from the inside, using a more subjective, emotional orientation which complements the other two approaches. In the common sessions we will focus on how these attitudes affect what they have on the reading.

300CS Cluster Course:Clio&the Other Muses:Hist&Culture 5th Cent Athens (3). 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.

304WI Writing and Technology (3). (Formerly English 230). 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, 225 and pass on WEPT. Offered: Every semester.

305WI Theory and Practice of Composition (3). (Formerly English 220). 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 instructor. (Students may not receive credit for more than one of the following: 305, 306, 403). Prerequisites: English 110, 225, and successful completion of the WEP. Offered: Every semester.

310 Introduction to Linguistics/Language Science (3). 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 330.

311 American Literature I (3). 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 and/or slave narratives, folklore, and songs.

312 Creative Writing I Fiction (3). 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 214 or instructors permission.

313WI Reporting (3). 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, 225, and successful completion of the WEP.

315 Creative Writing Poetry (3). 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 instructors permission.

316WI Literary Nonfiction (3). 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 110,225,and completion of the WEP.

317 Introduction to British Literature I (3). A survey of British Literature and culture from its beginnings to the mid-18th century, including works by Chaucer and Milton. Required for all English majors.

318 Biblical Literature (3). 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.

319 Myth and Literature (3). 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.

321 American Literature II (3). 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.

323 Shakespearean Drama (3). An intensive critical study of 12 of the representative major plays, including history plays, comedies, tragedies, and tragicomedies; an extensive reading of two to four significant plays in each of these categories. Elizabethan stage conditions and social background are also considered. Required of all English majors.

325 Arthurian Legends (3). 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

327 Introduction to British Literature II (3). A survey of British literature and culture from the 19th to the 20th century. 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.

330 History of the English Language (3). The study of English beginning with the Indo-European family and up to and including varieties of English spoken around the world today. Both outer history and the inner history of phonology, morphology, syntax, and lexicion will be addressed.

331 African American Literature I (3). This course provides a survey of African American literature from its beginnings to the "Harlem Renaissance of the 1920’s and ’30’s. 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.

332WI African American Novel (3). This course will examine the African American Novel in the nineteenth and twentieth centuries; the emphasis will be on the period from the 1920’s to the present. The novels will be examined in their historical and cultural contexts. Offered: On demand

333 African American Literature II (3). A survey of African American literature from its beginnings to World War II. 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.

336 Contemporary American Literature (3). An intensive study of American literature since World War II, concentrating on the profound literary changes following the war, as a new kind of poetry, fiction and drama emerge 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.

342WI Women and Rhetoric (3). A study of the position of women within the traditions of western rhetoric. Students will examine the rhetorical practices of women s they pursue both public and private goals. Christine de Pizan, Sor Juana Ines de la Cruz, Hannah More, Marie 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 WEPF. Offered: On Demand

344WI Women & Literary Culture: Genre Focus (3). 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 WEPF Offered: On Demand Restrictions: None

350 The 18th Century Novel (3). A detailed examination of the development of the novel in the 18th-century. This 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 novels studied may include Austen, Behn, Fielding, Godwin, Haywood, Richardson, Smollett, and Sterne. Prerequisite: None Restrictions: None

351 Special Readings (1-3). 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.

352 Critical Approaches to the Short Story (4). In this course the student will explore the short story, select a genre and read the works of 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 critics. 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.

353PW Critical Review & Evaluation of Fiction & Film (Writing Intensive) (4). The weekend component of this block meets one weekend per month for a total of 70 contact hours. This course will 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. 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 given the option of basing 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: WEPF. Offered: 1 weekend/month for 4 months.

354F Masterpieces of Fiction (4). The goal of this independent study is to provide the student with time and space to read and respond to T-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 that the student has exposure to the critical literary theory. Students will be assessed on the basis of their response journal, casual oral examination, and a critical essay. Prerequisites: None.

355 The Novel Before 1900 (3). 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: Every semester.

356 The Modern Novel (3). 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: Every semester.

365 Contemporary Novel (3). This course deals with novelists principally active since 1930 such as Faulkner, Camus, Cary, Dos Passos, West, Heller, Barth, Greene, Lessing, Solzhenitsyn and other post-World War II writers.

375 Colonial Literature (3). 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. There will be a strong focus on a single 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

400CA Cluster Course/Images of the Human Body in Renaissance (3). Focusing on Renaissance conceptions of the human body, this cluster treats the following topics as they are reflected in Renaissance literature, art, astrology, 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

400CB England King’s and Shakespeare’s: Literature, History, Film (3). 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 concert 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 historical context of the plays, especially recent theatrical 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 these written exercises, students will be required to write an interdisciplinary essay. Graduate students will be expected to write longer, more extensively researched papers.
400 CF Cluster Course: Courts and Culture in the High Middle Ages (3). This cluster course links history and English in a study of royal courts from the 11th, 12th, and 13th centuries, considering the political and cultural issues associated with each court and reading the literature. The first point of common focus will be the 11th-century court of William the Conqueror (1066-87), Norman duke and English monarch, a ruler who represents both the last movement of Scandinavian expansion and the beginnings of a feudal monarchy. The second focus will be on Henry II of England (1154-89), whose court exemplifies religious and secular tension in the Becket controversy and the patronage of thinkers like John of Salisbury. Two courts from the 13th century will be studied, the first that of Frederick II (1215-50), and the second that of Louis IX of France (1226-70).

400CQ Cluster Course: Sinai and Olympus: Two Views of Man and God (3). 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.

401 WI Feature Writing (3). 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.

402 Newspaper Editing (3). 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; history and evolution of journalism. Prerequisite applies only to undergraduate students. Offered: On demand.

403 WI Writing in Cultural Contexts (3). 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: 305, 306, 403). Prerequisites: Engl 110 and 225 or equivalent and successful completion of the WEPT. Offered: Every semester.

408 Harlem Renaissance (3). 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.

410 Black Women Writers (3). 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 literary (which might include fiction, poetry, autobiography, and drama) of the nineteenth and twentieth centuries; the majority of the works by both 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.

412 Chaucer (3). 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.

413 Renaissance Literature I (3). 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.

414 Milton (3). 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.

415 Restoration and Early 18th-Century British Literature (3). British literature from the late 17th-century to the mid 18th-century. Selected writers may include Addison and Steele, Behn, Congreve, Deyoe, Dryden, Finch, Milton, Pope, Rochester, Swift, and Worlsey Montagu. Prerequisites: English 317 or permission of instructor. Offered: On demand.

416 The Romantic Period (3). An extensive study of selected writers (such as Austen, Barbauld, Byron, Coleridge, Hazlitt, Hensons, 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.

417 Modern Poetry (3). Study of works by modernists poets such as Hopkins, Yeats, Frost, Stevens, Williams, Moore, Pound, H.D., Eliot, Millay, Hughes. Prerequisite: English 317 or permission of the instructor. This prerequisite applies only to undergraduate students.

418 19th-Century American Literature (3). An intensive study of either selected major American writers in the 19th-century or of 19th-century literary movements. Prerequisite: English 317 or permission of the instructor. This prerequisite applies only to undergraduate students.

422 Medieval Literature (3). 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.

424 Renaissance Literature II (3). 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.

425 18th-Century British Literature II (3). 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.

426 The Victorian Period (3). An intensive study of selected writers (such as Arnold, Thoreau, the Brownings, Dickens, Duvernoy, 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.

427 Contemporary Poetry (3). 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.

428 20th-Century American Literature (3), 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.

429 Screenwriting I (3). An introductory course in the craft of writing screenplays for movies and television. Emphasis is placed on both the genesis of screenplay ideas and the practical considerations of executing them. Close attention is paid to the inherent differences in writing a script for film versus television. Students are expected to master fundamental screenwriting techniques. The aim is to complete at least one rough draft for a full-length film. Prerequisite: English 329 or permission of the instructor. This prerequisite applies only to undergraduate students.

430 WI Advanced Technical Writing (3). 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.

431 Postcolonial Literature (3). 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/or 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 Restrictions: None

432 Advanced Creative Writing Prose (3). 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.

435 Advanced Creative Writing Poetry (3). 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 blurred images, the line: form and voice. May be repeated once for credit. Prerequisite: For Undergraduates Restrictions: English 315 or equivalent Offered: On demand.
Department of Foreign Languages and Literatures

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Professors:
Patricia P. Brodsky

Associate Professors:
Louis Imperiale, Kathy M. Krause, Gayle Levy, Alice R. Reckley Vallejos

Assistant Professors:
Kenneth Scott Baker, Rebecca L. Lee

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, Spanish). In addition, undergraduate minors are offered in French, German and Spanish.

Language instruction also is offered in Arabic, Chinese, Greek, Hebrew, Italian, Latin and Russian.

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 to the 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 the 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 of study at the University of Seville in Spain or the University of Lyon II in France. Year or semester programs are possible at 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 by participating in any of the summer programs sponsored by accredited American universities. 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 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 foreign language are provided on a limited basis. First-year language students are encouraged to use the Language Resource Center.

General Requirements

Foreign Language Requirements

1. Three semesters of instruction in a foreign language are part of the curriculum requirement for the bachelor of arts degree awarded by the College of Arts and Sciences. Successful completion of the 110-120-211 sequence in any language offered by this department normally will satisfy the requirement, but students should check with their departmental advisers before enrolling in specific language courses. Students who have satisfactorily completed two years of a foreign language in high school normally will be required to complete only 120 and 211 or above college courses in the same language. For additional details on placement and credit by examination, see the General Information section below.

2. Information on the foreign language proficiency requirements for doctoral students can be found in the General Graduate Academic Regulations section of the Graduate Catalog.

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.

Bachelor of Arts: French, German, Spanish
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: Patricia P. Brodsky  
(816) 235-2826, brodskyp@umkc.edu
Spanish: Alice Reckley Vallesjos  
(816) 235-2821, reckleya@umkc.edu

General Information

Initial Advising and Placement
A language placement exam is strongly recommended for all students with previous foreign language experience, especially those who are considering a major or minor in foreign language. The placement exam or the recommendation of a foreign language adviser will more accurately determine a student’s level, contributing to his or her success. Contact the department office for more information. Students who place at a level higher than 211 may opt to receive an exemption from the foreign language requirement, rather than take a course in that language, but will not receive any foreign language credit.

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. They will not receive 110, 120 or 211 credit for their first language.

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 at least one 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, 9 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 6 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.

Suggested Four-Year Plan of Study for the B.A. Degree

Year I
First Semester
110* Curricular Requirements and Electives 5
Second Semester
120* Curricular Requirements and Electives 5

* Electives must be approved in consultation with the department.

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Year II

First Semester

211* Curricular Requirements and Electives 3

Second Semester

221* Curricular Requirements and Electives 9-13

Year III

First Semester

315* 300/400 Literature and Civilization 6-9

Second Semester

325* 300/400 Literature and Civilization 6-9

Year IV

First Semester

415* 400 Literature 3-6

Electives 9-13

Second Semester

425 400 Literature 3-6

Electives 9-13

* Required course

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 6 hours of second-year courses plus 12 hours of courses at the 300 and 400 levels. French 435 and German 304 do not count toward a minor.

Teacher Certification in Foreign Language

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, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

Foreign Language Courses

180 Special Elementary Foreign Languages Topics I (2-5). 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.

190 Special Elementary Foreign Languages Topics II (2-5). Continuation of Foreign Languages and Literature 180. Prerequisite: Elementary I college-level course or equivalent. As needed.

211 Second Year Foreign Language I (2-4).

280 Special Intermediate Foreign Languages Topics I (2-4). 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.

290 Special Intermediate Foreign Languages Topics II (2-4). Continuation of Foreign Languages and Literature 280. Prerequisite: Third semester college level-courses or equivalent. As needed.

300CM Cluster Course: Mexico, Central America and the Human Condition (3). 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.

300CS Cluster Course: History of Russian Culture (3). 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.

380 Special Topics (1-3). 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.

400CC:Culture,Kultur,Civilisation:Identity Formation in Middle Class (3). 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 cinematographic sources.

480 Special Topics (1-3). 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.

494 Methods of Teaching Foreign Languages (3). 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.

Arabic Courses

110 Elementary Arabic I (5). Fundamentals of the language, essentials of conversation, grammar, practical vocabulary, useful phrases, and the ability to understand, read and write simple classical Arabic. Fall.

120 Elementary Arabic II (5). Continuation of Arabic 110. Winter. Prerequisite(s): Arabic 110 or equivalent.

211 Second Year Arabic I (3). 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.

221 Second Year Arabic II (3). Continuation of Arabic 211. Winter.

280 Special Intermediate Arabic Topics I (2-4). 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.

290 Special Intermediate Arabic Topics II (2-4). Continuation of Arabic 280. May not be repeated for credit. As needed.

Chinese Courses

110 Elementary Chinese I (5). Introduction to the sound system of modern Chinese, aural comprehension, oral expression, basic structural patterns, writing systems. Fall.


211 Second Year Chinese I (3). 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.
221 Second Year Chinese II (3). Readings of modern Chinese with emphasis on expository writings, analysis of syntactic structure, composition and translation. Prerequisite: Chinese 211 or equivalent. Winter.

280 Special Intermediate Chinese Topics I (2-4). 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.

290 Special Intermediate Chinese Topics II (2-4). Continuation of Chinese 280. May not be repeated for credit. As needed.

380 Special Topics: Composition and Conversation (1-3). 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.

French Courses

110 Elementary French I (5). 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.

120 Elementary French II (5). Continuation of French 110. Every semester. Prerequisite(s): French 110 or equivalent. Semester Offered: Every Semester.

211 Second Year French I (3). 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.

221 Second Year French II (3). Continuation of French 211. Winter.

250 Commercial French I (3). Business practices in correspondence in the French language; special vocabulary of business, trade, banking and administration. Refined of grammatical and stylistic skills. Subjects treated include price inquiries, quotations, offers, orders, complaints, administrative, banking, and diplomatic correspondence. Prerequisite: French 221 or equivalent.

280 Special Intermediate French Topics I (2-4). 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.

290 Special Intermediate French Topics II (2-4). Continuation of French 280. May not be repeated for credit. As needed.

301 Introduction to French Literature (3). An introduction to the study of different aspects 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.

303 Masterpieces of French Literature I (3). 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. Every fall.

304 Masterpieces of French Literature II (3). 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.

315 Intermediate Conversation and Composition I (3). 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.


340 French Literature in Translation (3). Seminar on French literature in translation. Class will be conducted in English and no knowledge of French is necessary. May not be taken for major credit.

350 French Civilization I (3). An historical introduction to French civilization and culture with emphasis on historical, social and cultural development. Prerequisites: French 221 or equivalent.

351 Introduction to French Phonetics (3). Drill and practice in pronunciation in class and in language laboratory. Prerequisite: French 221 or equivalent or permission of instructor.

352 French Civilization II: Contemporary French Civilization (3). 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.

354 French Civilization III: Lyon, Crossroads of France and Europe (3). 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.

380 Special Topics (1-3). 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.

412 17th Century French Literature (3). Selected readings in the literature of the 17th century, with an emphasis on non-dramatic works. Also offered as French 512.

413 18th-Century French Literature (3). Emphasis on philosophical and social significance. Authors may include Marivaux, Beaumarchais, Le Sage, L’Abbe Prevost, Montesquieu, Rousseau, Diderot. Also offered as French 513.

414 Medieval Literature (3). 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 514.

415 Advanced Conversation and Composition I (3). 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.

417 16th-Century French Literature (3). 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 517.

424 19th-Century French Literature (3). Selected readings in various genres from Romanticism through Symbolism. Also offered as French 524.


426 20th-Century French Literature (3). Selected readings from the Belle Epoque to the contemporary period. Also offered as French 526.

431 Racine (3). Seminar on the career and work of Jean Racine. Study of 17th century dramaturgy and individual research on particular plays. Also offered as French 531.

433 Voltaire (3). Seminar on Voltaire and his place in the French Enlightenment. Also offered as French 533.

434 Diderot (3). Seminar on Diderot and the Encyclopedie and their contributions to the French Enlightenment. Also offered as French 534.

435 Directed Discussions in Advanced French (3). 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.

436 Molieres (3). Moliere’s theater with emphasis on the interrelationship of the plays. Also offered as French 536.

440 Medieval Romance (3). 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 540.

444 Renaissance Poetry (3). 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 544.

445 Epistolary and the Novel (3). Explorations of the genre through the analysis of 17th-and 18-century French novels. Introduced by a theoretical review. Also offered as French 545.

446 17th-Century French Drama (3). The classical period: Emphasis on Corneille, Racine and Moliere. Also offered as French 546.

447 19th-Century French Poetry (3). 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 547.

448 20th Century French Theater (3). Analysis of major currents of French theater of the 20th-Century, with emphasis upon the postwar period and its movements. Also offered as French 548.

452 Medieval Poetry (3). A study of medieval poetry including religious and secular poetry, Provencal and Old French lyric, the influence of poetry in other genres such as romance and theater, later medieval poetry of the 14th and 15th centuries, as well as a discussion of the origins of the lyric. Also offered as French 552. Prerequisites: French 221 or the equivalent.
German Courses

H415 Advanced Conversation and Composition I (3). 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 consent of instructor and department chairman. No more than six hours credit may be applied towards a degree. Prerequisite: German 325.

110 Elementary German I (5). 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. Every fall and summer.

111 Introduction to Business German I (5). The goals of this course are the development of essential language skills in order to communicate effectively in basic situations. Every Fall. Prerequisites: None. Offered: Every Fall.

120 Elementary German II (5). Continuation of German 110. Every winter. Prerequisite(s): German 110 or equivalent. Semester Offered: Every semester.

121 Introduction to Business German II (5). German 121 (5 Credits): Continuation of German III. Every Semester. Prerequisites: German 110 or 111 or equivalent. Offered: Winter.

211 Second-Year German I (3). 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.

221 Second-Year German II (3). Continuation of German 211. Every winter.

250 Commercial German (3). 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.

280 Special Intermediate German Topics I (2-4). 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 taken for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed.

290 Special Intermediate German Topics II (2-4). Continuation of German 280. May not be repeated for credit. As needed.

301 Introduction to Literary Studies (3). 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.

304 Aspects of Contemporary German Culture (Conducted in German) (3). 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 structure will be determined at lectures, guest lectures, audiovisual presentations and discussions, emphasizing cross-cultural comparisons. (Not for major credit in German).

303 Current Events in Germany (3). This course focuses on current issues in Germany such as politics, the economy, foreign affairs, culture, science, education, etc. Various television news programs, newspapers, and newspapers will be the primary sources of information in this course. Prerequisites: 221 or equivalent.

306 Aspects of Contemporary German Culture (Conducted in German) (3). The goals of the course is to familiarize the student with various aspects of contemporary culture in the German-speaking countries (Germany, Switzerland, Austria). The class structure will be determined at lectures, guest lectures, audiovisual presentations and discussions, emphasizing cross-cultural comparisons.

307 From the Middle Ages to the Baroque (3). 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 Restrictions: Course is offered in German.

308 From the Enlightenment through the 19th Century (3). The goal of this course is to introduce students to the history of German literature from the Enlightenment through the 19th century, emphasizing the historical and social context and the development of various genres. Prerequisite: German 221 or equivalent. Offered: On Demand Restrictions: Course is offered in German.

310 Classical Period of German Literature (3). Readings in the late 18th and 19th centuries with emphasis on Goethe and Schiller.

315 Intermediate Conversation and Composition I (3). Practice in speaking and writing German; emphasis on idiomatic usage. Required for major. Prerequisite: German 221 or equivalent. Every fall.

325 Intermediate Conversation and Composition II (3). Continuation of German 315. Required for major. Prerequisite: German 315. Every winter.

340 Society and Literature in 20th-Century Germany (3). 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.

341 Survey of German Film 1920-1980 (3). 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.

345 The Antifascist Tradition in Germany (3). 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.

400 Rainer Maria Rilke (3). 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.

411 Romanticism (3). Main currents and authors from the Romantic school, 1780-1820.

412 The German Novelle (3). An examination of representative novellen of the 19th and 20th centuries. Special emphasis on the study of form.
414 German Lyric Poetry (3). Lyric poetry from its beginnings to the present. Emphasis on 19th and 20th centuries.
415 Advanced Conversation and Composition I (3). 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.
421 19th-Century Drama (3). Kleist through Hauptmann.
422 Contemporary Drama (3). 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.
425 Advanced Conversation and Composition II (3). Continuation of German 415. See German 415. Required for teacher certification in German. Prerequisite: German 415.
426 20th-Century German Literature (3). Selected readings from Neo-Romanticism to the present. On demand.
453 Women’s Voices in Germany and Austria (3). 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.
490 Special Readings (1-3). 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.
499 Senior Seminar (Capstone) (3). 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.

Greek Courses
110 Elementary Greek I (5). 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.
120 Elementary Greek II (5). 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 the students will be introduced to selections from Plato, Herodotus or Homer. Prerequisite(s) Greek or equivalent. Semester Offered: Every other winter semester.
280 Special Intermediate Greek Topics I (2-4). 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.
290 Special Intermediate Greek Topics II (2-4). Continuation of Greek 280. May not be repeated for credit. As needed.
490 Special Readings in Greek (1-3). 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.

Hebrew Courses
110 Elementary Hebrew I (5). Fundamentals of the language, essentials of conversation, grammar, practical vocabulary, useful phrases, and the ability to understand, read, write and speak simple Hebrew. Every Fall.
120 Elementary Hebrew II (5). Continuation of Hebrew 110. Every winter. Prerequisite(s): Hebrew 110 or equivalent.
211 Second-Year Hebrew Readings I (3). 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: Hebrew 120 Offered: Fall.
221 Second-Year Hebrew II (3). Continuation of Hebrew 211. Prerequisite: Hebrew 211. Every winter.
280 Special Intermediate Hebrew Topics I (2-4). Instruction of Hebrew 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.
290 Special Intermediate Hebrew Topics II (2-4). Continuation of Hebrew 280. May not be repeated for credit. As needed.

Italian Courses
110 Elementary Italian I (5). Intended to give the student the ability to read prose of ordinary difficulty and to understand and speak simple Italian. Fall.
120 Elementary Italian II (5). Continuation of Italian 110. Winter. Prerequisite(s): Italian 110 or equivalent.
211 Second Year Italian I (3). 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.
221 Second Year Italian II (3). Continuation of Italian 211. Winter.
280 Special Intermediate Italian Topics I (2-4). 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.
290 Special Intermediate Italian Topics II (2-4). Continuation of Italian 280. May not be repeated for credit. As needed.

Latin Courses
110 Elementary Latin I (5). Fundamentals of grammar and syntax; selected passages from various Latin authors concluding with readings from Caesar. Every fall.
120 Elementary Latin II (5). Continuation of Latin 110. Every Winter. Prerequisite(s): Latin 110 or equivalent.
211 Second Year Latin Readings I (3). Selected readings from works by various Latin authors. Grammar review. Prerequisite: Latin 120. Fall.
221 Second Year Latin Readings II (3). Continuation of Latin 211. Winter.
280 Special Intermediate Latin Topics I (2-4). 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.
290 Special Intermediate Latin Topics II (2-4). Continuation of Latin 280. May not be repeated for credit. As needed.

Russian Courses
110 Elementary Russian I (5). The goals of this course are an ability to speak and to understand simple (spoken) Russian as well as to read and write simple prose. Every fall.
120 Elementary Russian II (5). Continuation of Russian 110. Every winter. Prerequisite(s): Russian 110 or equivalent.
211 Second Year Russian I (3). 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: Russian 120. Fall.
221 Second Year Russian II (3). Continuation of Russian 211. Winter.
280 Special Intermediate Russian Topics I (2-4). Instruction of Russian 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.
290 Special Intermediate Russian Topics II (2-4). Continuation of Russian 280. May not be repeated for credit. As needed.

Spanish Courses
110 Elementary Spanish I (5). 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.
120 Elementary Spanish II (5). Continuation of Spanish 110. Every semester. Prerequisite(s): Spanish 110 or equivalent.

211 Second Year Spanish I (3). 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.

216 Spanish for the Health Sciences (3). 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.

221 Second Year Spanish II (3). Continuation of Spanish 211. Winter.

250 Commercial Spanish (3). 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.

280 Special Intermediate Spanish Topics I (2-4). 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.

290 Special Intermediate Spanish Topics II (2-4). Continuation of Spanish 280. May not be repeated for credit. As needed.

301 Introduction to Literary Studies (3). 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.

303 History of Spanish Literature I (3). A study of the development of Spanish peninsular literature from the Middle Ages to 1700.

304 History of Spanish Literature II (3). A study of the development of Spanish peninsular literature from 1700 to the present.

311 Introduction to the Contemporary Spanish Theatre (3). A broad panorama of modern drama. The course will endeavor to synthesize ideas and trends apparent in the plays by Garcia Lorca, Casona, Bueno Valdlo, Joaquín Calvo Sotelo, Iriarte, Sastre, Mihura, Peman, Paso, Luca de Tena, Jardiel Poncela, Lopez Rubio, Sito Alba and others.

312 19th-Century Drama (3). The neoclassic, romantic and postromantic drama.

315 Intermediate Conversation and Composition I (3). 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.

322 19th-Century Novel I (3). A study of the development of the Spanish novel with special emphasis on Romanticism, “costumbirismo,” Regionalism, and Realism, as seen through the works of Fernan Caballero, Alarcon, Valera, and Galdos.

323 19th-Century Novel II (3). An examination of the literary currents prevalent during the second half of the 19th century with special emphasis on the historical novel. Authors to be studied will include Pardo Bazan, Valdes, Clarin, Blasco Ibanez, and Galdos.

325 Intermediate Conversation and Composition II (3). Continuation of Spanish 315. Required for major. Prerequisite: Spanish 315. Every winter.

350 Continental Spanish Civilization (3). General cultural characteristics of Spain. Readings from representative literary works.

351 Latin American Civilization (3). Historical development of Latin America. Readings from representative literary works.

365 The Search for Mexican Identity (3). 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.

380 Special Topics (1-3). 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.

401 Introduction to Spanish American Literature I (3). 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.

402 Introduction to Spanish American Literature II (3). The 19th and 20th-centuries. Selected readings from prose and poetry of Spanish-American writers. On demand.

414 The Generation of 1898 (3). 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 514.

415 Advanced Conversation and Composition I (3). 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.

416 Medieval Spanish Literature (3). From the Cantar de Mio Cid to 1499. Winter.

417 Spanish-American Lyric Poetry (3). 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.

418 Romantic Movement in Spain (3). 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.

420 Cervantes’ Don Quixote, Part I (3). An intensive reading of the first part of Cervantes’ novel, Don Quixote.

421 Cervantes’ Don Quixote, Part II (3). An intensive reading of the second part of Cervantes’ novel, Don Quixote. Part One is not a prerequisite. Also offered as Spanish 521.


426 Golden Age Drama (3). The development of the Spanish drama from Lope’s youth to the death of Calderon. Also offered as Spanish 526.

427 Pre-Columbian and Spanish Colonial Literature (3). 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 527.

428 Contemporary Spanish Poetry (3). 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 528.

429 The Novel of the Mexican Revolution (3). 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.

430 Spanish Mysticism (3). 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 530.

431 The Golden Age Novel (3). 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 531.

432 Pastoral Literature (3). 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 532.

433 Cervantes’ Exemplary Novels (3). 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 533.
434 The Picaresque Novel (3). 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 534.

450 Modern Classics of Latin American Literature (3). 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 550.

453 Spanish-American Short Story (3). A study of Spanish-American short stories from Romanticism to the present. Also offered as Spanish 553.

460 U.S.-Latino Literature (3). 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 560.

480 Special Topics (1-3). 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.

490 Special Readings (1-3). 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.

499 Senior Seminar (Capstone) (3). 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
Department of Geosciences

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Department Chair:
Raymond M. Coveney Jr.

Professors:
Raymond M. Coveney Jr., Steven L. Driever (principal geography adviser), Martha W. Gilliland (chancellor), Syed E. Hasan

Associate Professors:
Daniel P. Hopkins, Wei Ji, James B. Murowchick (principal graduate adviser), Tina M. Niemi (principal undergraduate geology adviser)

Assistant Professors:
Jimmy O. Adegoke, Caroline P. Davies, Jejung Lee

Professors Emeriti:

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. Students who designate geosciences (environmental science, geology or geography focus) on their application for admission to the doctor 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 9 a.m. to 4:30 p.m. weekdays, whenever school is in session. Admission is free.

Center for Applied Environmental Research
The Center for Applied Environmental Research (http://www.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 applied geophysics, environmental geochemistry, underground space, foundation stability, waste management, geologic hazards, environmental justice, natural resource assessment and land-use planning. The department also offers a graduate-level Waste Management Certificate Program.

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 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.

Natural Science/Social Sciences Area Requirements
The following geosciences courses and environmental science courses meet the natural science area requirement of the College of Arts and Sciences. All geography courses except those listed here can be used to fulfill the social sciences area requirements.

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<td>ENVSC 110R</td>
<td>Understanding the Earth Laboratory</td>
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<td>GEOG 315</td>
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<td>GEOG 317</td>
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<td>GEOG 360</td>
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<td>GEOG 335</td>
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Careers 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 Science, Geology, Physics and 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 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 science 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, geography, and earth science 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.

**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 Denis Ward Scholarship, the Richard J. Gentile Scholarship, the Truman Stauffer 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

Participating Chemistry Faculty:
Yanching (Jerry) Jean, Kathleen Kilway, J. David VanHorn, Charles Wurrey

Participating Computing and Engineering Faculty:
Deborah O’Bannon

Participating Economics Faculty:
Michael Kelsay

Participating Education Faculty:
A. Louis Odom

Participating Geosciences Faculty:
Jimmy Adgeoke, Raymond Covenev, Caroline Davies, Steven Driever, Syed Hasan, Daniel Hopkins, Wei Ji, Jejung Lee, James Murowchick, Tina Niemi

Participating History Faculty:
John Herron

Participating Philosophy Faculty:
James Sheppard

Participating Political Science Faculty:
Reginald Bassa

Participating Psychology Faculty:
Joseph Hughey

**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 science. 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.
# Degree Requirements

## B.A. Environmental Studies:
### B.A. Program Coordinator:
Daniel P. Hopkins, (816) 235-1334

### Core Requirements:
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 110R Understanding the Earth w/Lab</td>
<td>5</td>
</tr>
<tr>
<td>ENVS 110L</td>
<td></td>
</tr>
<tr>
<td>ENVS 210 Environmental Issues</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 499WI Environmental Studies Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

### Choose Three Courses in Three Different Departments:
- ECON 320 Environment, Resources and Economic Growth
- GEOG 315 Climatology
- PHIL 480C Environmental Ethics
- POLSC 435 Politics of the Environment
- PSYCH 403 Environmental Psychology

### Choose Four Courses from the Following List:
(At least one course must be taken from each of the three divisions of learning: Humanities (H), Natural Sciences (NS), and Social Sciences (SS). Core courses cannot also be counted for credit in this section.)
- BIOL 108 General Biology I (NS)
- BIOL 109 General Biology II (NS)
- CHEM 211 General Chemistry w/Lab (NS)
- CHEM 211L 5
- CHEM 212 General Chemistry II w/Lab
- CHEM 212LR 5
- GEOG 315 Climatology
- GEOG 250 Field Methods in Earth and Environmental Science
- MATH 235 Elementary Statistics

### Minimum Core Courses:
30

### Distribution Electives and General Education Requirements:
90

### Minimum Total Hours:
120

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

### Core Requirements:
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ENVS 110R Understanding the Earth w/Lab</td>
<td>5</td>
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<tr>
<td>ENVS 110L</td>
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<td>ENVS 210 Environmental Issues</td>
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<td>3</td>
</tr>
<tr>
<td>BIOL 108 General Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 109 General Biology II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 211 General Chemistry I w/Lab</td>
<td>5</td>
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<tr>
<td>CHEM 211L</td>
<td></td>
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<tr>
<td>CHEM 212 General Chemistry II w/Lab</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 212LR</td>
<td></td>
</tr>
<tr>
<td>GEOG 315 Climatology</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 250 Field Methods in Earth and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>MATH 235 Elementary Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

### Choose Four Courses from the Following List:
(At least one course must be taken from each of the three divisions of learning: Humanities (H), Natural Sciences (NS), and Social Sciences (SS). Core courses cannot also be counted for credit in this section.)
- BIOL 302 Ecology (NS)
- CHEM 387 Environmental Chemistry (NS)
- ECON 320 Environment, Resources, and Economic Growth (SS)
- ENVSC 310 Field Experience in Waste Management (NS)
- ENVSC 496 Environmental Internship (NS) 1-3
- GEOG 317 Cartography (NS)
- GEOG 360 Principles of Biogeography (NS)
- GEOG 401 Introduction to GIS (NS)
- GEOG 402 Environmental Remote Sensing (NS)
- GEOG 404 Biogeography & Landscape Ecology (NS)
- GEOG 442 Quaternary Environments (NS)
- GEOL 220 General Geology (NS)
- GEOL 302 Environmental Geology (NS)
- GEOL 335 Introduction to Waste Management (NS)
- HIST 356 Rise of the City US (SS)
- HIST 356R KC: History of a Regional Metropolis (SS)
- PHIL 334 Philosophy of Science (H)
- PHIL 370 Environmental Ethics (H)
- POLSC 435 Politics of the Environment (SS)
- PSYCH 403 Environmental Psychology (SS)
- UPD 260 History of Planning (SS)
- UPD 270 Planning Theory & Practice (SS)

### Minimum Core Courses:
49

### Distribution Electives and General Education Requirements:
71

### Minimum Total Hours:
120

**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 science 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.

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## Environmental Studies Minor

### B.A. Program Coordinators:
- Daniel P. Hopkins, Geosciences, (816) 235-1334
- Joseph Hughey, Psychology, (816) 235-1321

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 9 hours at the 300- or 400-level and a minimum of 9 hours earned at UMKC. The program of study is planned with a program coordinator.

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 110R</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 110L</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 160*</td>
<td>4</td>
</tr>
</tbody>
</table>

*One of the following:*

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 320*</td>
<td>3</td>
</tr>
<tr>
<td>ENVSC 210*</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 403*</td>
<td>3</td>
</tr>
<tr>
<td>POLSC 435*</td>
<td>3</td>
</tr>
<tr>
<td>POLSC 435P*</td>
<td>4</td>
</tr>
</tbody>
</table>

*May not be counted twice (i.e. in both required and elective categories).

**Electives**

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

**B.S. Program Coordinators:**

- Caroline Davies, Geosciences, (816) 235-1335
- Charles Wurrey, Chemistry, (816) 235-2273

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 9 credit hours must be at the 300- or 400-level and a minimum of 9 credit hours must be taken at UMKC. The program of study is planned with a program coordinator.

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 110R</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 110L</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 387*</td>
<td>3</td>
</tr>
</tbody>
</table>

*One of the following:*

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 320*</td>
<td>3</td>
</tr>
<tr>
<td>ENVSC 210*</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 403*</td>
<td>3</td>
</tr>
<tr>
<td>POLSC 315*</td>
<td>3</td>
</tr>
<tr>
<td>POLSC 409*</td>
<td>3</td>
</tr>
<tr>
<td>POLSC 435*</td>
<td>3</td>
</tr>
</tbody>
</table>

*May not be counted twice (i.e. in both required and elective categories).

**Electives**

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

**Geography and Geology Programs**

Professors:

- Raymond M. Coveney Jr., Steven L. Driever (principal geography adviser), Martha W. Gilliland (chancellor), Syed E. Hasan

Associate Professors:

- Daniel P. Hopkins, Wei Ji, James B. Murowchick (principal graduate adviser), Tina M. Niemi (principal undergraduate geography adviser)

Assistant Professors:

- Jimmy O. Adegoke, Caroline P. Davies, Jejung Lee

Professors Emeriti:


**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 sciences degrees. The department also offers a master of science degree in environmental and urban geosciences, previously known as 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.

**Bachelor of Arts/Bachelor of Science: Geography**

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 110R/110L</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 200 or 202</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 317</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 398 Field Trip</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 401</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 499W1 Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

**Any Four From (human and regional geography):**

- GEOG 309 Urban Geography
- GEOG 311 Economic Geography
- GEOG 329 World Political Geography
- GEOG 332 Cultural Geography
- GEOG 333 Introduction to Urban Planning
- GEOG 403 History and Philosophy Geography
- GEOG 437 Population Geography
- GEOG 460 Transportation Geography

Regional Courses: one or two 300-level 3-6

**Any Three From (physical geography):**

- GEOG 314 Principles of Geomorphology
- GEOG 315 Climatology
- GEOG 319 Descriptive and Synoptic Meteorology
- GEOG 336 Principles of Soil Science
- GEOG 360 Principles of Biogeography
- GEOG 402 Environmental Remote Sensing
- GEOG 404 Biogeography and Landscape Ecology
- GEOG 442 Quaternary Environments
- GEOG 444 Geo-computation for Earth and Environmental Sciences
- GEOG 448 Satellite Climatology

**Supporting Requisites:**

- MA TH 235 (Statistics) (B.S.) or a fourth semester of a foreign language (B.A.)* 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. degree.

**B.S. students in the Department of Geosciences are not required to take foreign languages.**

**Bachelor of Arts/Bachelor of Science: Geology**

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 110R/110L</td>
<td>5</td>
</tr>
<tr>
<td>OR GEOL 220 General Geology</td>
<td>3</td>
</tr>
<tr>
<td>OR GEOL 220L General Geology Lab</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 250 Field Methods in Earth and Environmental Sciences</td>
<td>3</td>
</tr>
<tr>
<td>OR GEOL 312 Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>OR GEOL 313 Evolution and the Geologic Record</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 350 Earth Structures and Tectonics</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 490 Geology Field Camp</td>
<td>6</td>
</tr>
<tr>
<td>GEOL 497 Senior Geology Practicum</td>
<td>3</td>
</tr>
<tr>
<td>OR GEOL 499W1 Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>
Choose FOUR of the Following (12-15 credit hours):

**Geology Courses**
- GEOG 314 Principles of Geomorphology 4
- GEOG 325 Sedimentology/Stratigraphy 4
- GEOG 342 Igneous and Metamorphic Petrology 4
- GEOG 370R Hydrogeology 3
- GEOG 401 Introduction to GIS 3
- GEOG 412 Geology and Hazardous Waste Management 3
- GEOG 432R Optical Mineralogy 3
- GEOG 442 Quaternary Environments 3
- GEOG 444 Geocomputation Methods 3
- GEOG 460 Introduction to Geochemistry 3
- GEOG 471 Tectonics 3
- GEOG 472 Earthquake Geology 3

**B.S. Supporting Requisites:**
- BIOL 108 General Biology* 5
- MATH 210 Calculus I 4
- MATH 235 Elementary Statistics 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
- PHYS 240** (or 210) 5 or 4
- PHYS 250** (or 220) 5 or 4

**B.A. Supporting Requisites:**
- BIOL 108 General Biology* 5
- MATH 235 Elementary Statistics 3
- CHEM 211 General Chemistry I 4
- CHEM 211L General Chemistry I Lab 1
- PHYS 210** General Physics 4

*High school biology satisfies this requirement.

**Physics for Science and Engineering is the preferred course for the professional degree.

**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 SC 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). GEOG 220 General Geology (5 hours with lab) and GEOG 250 Field Methods in Earth and Environmental Sciences (3 hours) are required. **Note:** GEOG 398, 417, 489 and 499WI do not count as credit in a minor program in geology.

**Environmental Science Courses**
- 110L Understanding the Earth Laboratory (2). 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
- **Environmental Science Practicum (3).** 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

**110R Understanding the Earth (3).** 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

**210 Issues in Environmental Science (3).** 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

**310 Field Experience in Waste Management (3).** Overview of waste management issues. 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 both local and out-of-town travel. Final report required. **Prerequisites:** J/ Sr or instructor’s consent Offered: Summer

**496 Environmental Internship (1-4).** Students obtain practical experience working for local engineering and environmental firms, or governmental agencies. Specific duties and application requirements will vary depending on the funding organization’s needs. Junior or senior standing required for undergraduates. Applicant (s) must be accepted for the position prior to enrollment. **Prerequisite:** Permission of instructor Offered: Summer, Fall or Winter as available.

**Environmental Studies Courses**
- **499WI Environmental Studies Practicum (3).** 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.

**Geography Courses**
- **105 Introduction to the Elements of Geography (3).** 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.
- **150 Introduction to Physical Geography (3).** 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.
- **200 World Geography I (3).** 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.
- **202 World Geography II (3).** 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
- **210 Human Geography (3).** 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.
- **215 Introduction to Weather and Climate (3).** 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. Offered: Fall
- **300 Interdisciplinary Studies: Cluster Courses (3).**
- **309 Introduction to Urban Geography (3).** Historical development, morphology and functional aspects of urban places, including the relationship between these places and their hinterlands; emphasis on American cities. Three hours lecture, discussion a week. Offered: On demand.
- **311 Economic Geography (3).** 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

314 Principles Of Geomorphology (4). 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 EOL 220; GEOL 230 suggested. Offered: On demand.

317 Cartography (4). 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, discussions, and laboratory. Offered on demand.

319 Descriptive And Synoptic Meteorology (4). 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 Geog 215. Offered: On demand.

329 World Political Geography (3). 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.

332 Geographic Elements of Urban Planning (3). Analysis of the changing forms of urban areas and 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.


340 Regional Geography of the United States and Canada (3). 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 management, environmental protection, and economic distribution are emphasized. Offered: On demand.

341 Regional Geography of South America (3). 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.

342 Regional Geography of Mexico, Central America and the Caribbean (3). 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.

345 Regional Geography of Africa (3). 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.

350 Regional Geography of Europe (3). 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.

351 Regional Geography of the Middle East (3). 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.

352 Regional Geography of Southeast Asia (3). 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.

355 Regional Geography of Africa (3). 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.

360 Principles Of Biogeography (3). 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 distributions (vicariance biogeography). Prerequisite: Env Sci 111R. Offered: On demand.

398 Field Trip (1). 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.

401 Introduction to Geographic Information Systems (3). An introductory course covering the basic principles of geographic information systems (G.I.S.) focusing on such widely used programs as ARC/INFO and ARC VIEW. Prerequisites: None.

402 Environmental Remote Sensing (3). 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 401 or permission of instructor. Semester offered: On demand.

403 History and Philosophy of Geography (3). A survey of geographic thought since antiquity. The substance of geography will be sought primarily in scholarly treaties, 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. Also offered as Geography 503. Offered: On demand.

404 Biogeography and Landscape Ecology (3). 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 401, Geog 402/502 or permission of instructor. Offered: On demand. Also offered as Geography 510.

410 Landscape, Language, Literature, and Law (3). 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 Geography 510.

415 History and Philosophy of Cartography (3). 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 Geography 515.

417 Special Topics (1-3). Individual research and study of a selected topic in geography, meteorology or earth science. Prerequisites: Approval of instructor. On demand.

426 Paleoecology: Microfossils and Climate Change (3). 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 analytical data. Prerequisite: Permission of Instructor. Offered: Every other Fall semester.

430 Energy Resources (3). 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 111R; Geol 220 recommended. Offered: On demand.

435 Geoarchaeology (3). 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 Geol 314, or permission of instructor. Offered: On demand.
437 Population Geography (3). Analysis of areal patterns of population distribution, composition, migrations and growth as well as their causes and consequences upon the cultural landscape. The relationships between population regions and resource or socio-economic regions are emphasized. Offered: On demand

442 Quaternary Environments (3). 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 542. Prerequisite(s): Geog 314 or Geol 314, and Geog 315, or permission of instructor. Offered: On demand

444 Geo-Computation for Earth and Environmental Sciences (3). This course will focus on advanced computation methods for the analysis and modeling of 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. Prerequisite: Geog 402 or permission of instructor Offered: On demand

448 Satellite Climatology (3). 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 condition and characteristics. Prerequisites: Geog 215 or Geog 319, or permission of instructor Offered: On demand

460 Transportation Geography (3). 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 tutorials. Offered: On demand

489 Tutoring in Geography (1-3). Students critique geographic research and application of selected techniques to a local environmental problem. Course will include a field component illustrating application of selected techniques to a local environmental problem. Prerequisite: Permission of instructor Offered: Summer, Fall, or Winter as available.

499W1 Geography Seminar (3). Students critique geographic research and prepare a paper and an oral presentation on an approved topic. Prerequisite: Senior standing and successful completion of the WEP course. Offered: Winter.

496 Geography Internship (1–4). Students obtain directed practical experience working with organizations, governmental agencies, or the private sector. Specific duties and application requirements will vary depending on the funding organization’s needs. Applicant(s) must be accepted for the position prior to enrollment. Prerequisite: Permission of instructor Offered: Summer, Fall or Winter as available.

H309 Introduction to Urban Geography–Honors (3).

H332 Cultural Geography - Honors (3).

H437 Population Geography-Honors (3).

Geology Courses

120 Energy Science (3). 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 non-conventional alternatives such as solar, wind, water, geothermal, biomass and fusion will be addressed. Lecture and discussions. No prerequisites. Each semester.

220 General Geology (3). 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.

220L General Geology Laboratory (2). Laboratory and field investigations of principles of the geology designed to complement the topics covered in Geology 202 and 220 through the use of inquiry-based investigations in the laboratory and field. Prerequisite: Co-requisite or Prerequisite Geology 202 or Geology 220. Semester offered: Fall and Winter.

230 Historical Geology (4). An interpretation of the biological and physical history of the earth’s crust. Prerequisite: Geol 220 or permission of instructor. Three hours lecture, discussion and two hours laboratory a week. Field trips. Prerequisite(s): Geol 220 or permission of instructor. Offered: Fall, Winter.

250 Field Methods in Earth and Environmental Science (3). 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: Geol 101 and Geol 101L or Envs 111 and Envs 111L. Prerequisites: Geol 101 and Geol 101L or Envs 111 and Envs 111L. Offered: Fall

302 Environmental Geology (3). 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.

312 Mineralogy (4). Introduction to crystallography, mineral chemistry and the systematic classification and identification of minerals. Prerequisites: Physical Geology and Chemistry 212R. Three hour lecture and discussion with two hours laboratory a week. Fall.

313 Evolution and the Geologic Record (4). 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

314 Principles of Geomorphology (4). 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 111R; or Geol 220; Geol 230 suggested. Offered: On demand.


341 Seismic and Potential Field Methods in Near Surface Geophysics (3). Fundamental theory and near-surface applications of the geophysical methods; (1) refraction, (2) gravity, and (3) magnetics. Emphasis will be placed on the use of these methods in environmental and engineering investigations, addressing such issues as waste sources, geotechnical properties and environmental protection. Course will include a field component illustrating selected techniques to a local environmental problem. Prerequisites: Permission of instructor Offered: On demand

342 Igneous and Metamorphic Petrology (4). 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

342R Electrical Methods in Near Surface 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 waste sources, geotechnical properties and archaeological protection. Course will include a field component illustrating application of selected techniques to a local environmental problem. Prerequisites: Permission of instructor Offered: On demand

350 Structural Geology (4). Architecture of the rocks of the earth’s crust insofar as it has been determined by earth movements. Techniques of field measurement. Three hours lecture and discussion with two hours laboratory a week. Prerequisite: Geology 220, 230. Physics 210 or 240. Winter.

370R Hydrogeology (3). 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

398 Geology Midcontinent Field Trip (1). 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.

404 Geology of Fluids (3). Basic factors controlling the occurrence and flow of ground water, movement of aqueous and non-aqueous phase contaminants, aspects of monitoring well design and sampling, water quality data interpretation and presentation techniques, conceptual hydrogeologic and contaminant transport models. Three hours lecture, discussion and laboratory a week. Prerequisites: Geology 220, Geology 312 Offered: On demand

Restrictions 325 recommended.

412 Geology and Hazardous Waste Management (3). 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 is required. Geol 325, 342, and 350 or permission of the instructor.

417 Special Topics (1-3). Individual research and study of a selected topic in geology or earth science. Prerequisites: Approval of instructor and departmental sanction. On demand.

417A Special Topics: Common Rocks, Minerals & Fossils of the K C Area (1-3).


434 Hazardous Waste Operations Management (2). 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

435 Hazardous Waste Operation Management (2). 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: Geol 302, Geol/Geog 335, Geol 412 or permission of instructor Restrictions: Must be in good health to withstand physical stress during training Offered: Winter

442R Optical Crystallography (3). 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: Geol 312, Mineralogy or consent of instructor Offered: Winter bi-annually

451 Geology’s Role in Land Use Planning (3). 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 Sc 111R Offered: On demand.

460 Introduction to Geochemistry (3). 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, Chemistry 212. On demand.

471 Tectonics (3). 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 350. Offered: On demand.
Department of History

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

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Department of History
CH 203
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Louis Potts

Professors Emeriti:
Jesse V. Clardy, John T. Graham, Herman M. Hattaway,
Lawrence H. Larsen, James C. Olson (president emeritus,
University of Missouri), Stanley B. Parsons, Joseph P.
Schultz

Professors:
Gary L. Ebersole, Miriam Forman-Brunell, Carla L.
Klausner (principal graduate adviser), Bryan Le Beau,
Dennis Merrill, Patrick A. Peebles, Louis W. Potts

Associate Professors:
William B. Ashworth Jr., James S. Falls (principal
undergraduate adviser)

Assistant Professors:
Andrew Bergerson, Diane M. Burke, John Herron, Lynda
Payne, Shona Kelly Wray, Mary Ann Wynkoop

Adjunct Faculty:
David Boutros, Evelyn Hunt, Gary Palmer, Alan Perry,
Linna Place, Frederick Spletstoser, Fran Sterberg,
William O. Stevens, William Worley

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 the
student 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.
Department 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 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 the student 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,
Carla L. Klausner.

Department Activities
Advising
Counseling is key to a meaningful and profitable course of
study in the department. Students should consult the
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://www.umkc.edu/history. The department offers printed
guides to the requirements for its graduate degrees.

Special Programs
Combined Interdisciplinary Major: Undergraduate Degrees
In cooperation with several other departments, the Department of
History offers a combined major program. While a major
comprises 27 credits and a double major usually requires 54
credits, the student may choose the combined major program of
approximately 39 to 42 credits. To enter the program, the
student should achieve a 2.5 grade-point average by the end of
the sophomore year. Students interested in this individualized
program should contact the chair or the undergraduate adviser
in both disciplines. After approval of the student’s candidacy
by both departments, advisers from the two disciplines will aid
in the design of an interdisciplinary program.

Any student interested in a combined major in history and
another discipline should contact James S. Falls at
(816) 235-2545 or by e-mail fallsj@umkc.edu.

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
ashworth@lindahall.org
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. Membership in
Phi Alpha Theta is noted on each honoree’s official grade
transcript. The chapter sponsor is James S. Falls. Contact him
at (816) 235-2545 or by e-mail fallsj@umkc.edu.

Bachelor of Arts: History
Course Offerings
The discipline of history is very broad in its concerns; in many
ways it consists of the study of the time dimension of the basic
interests of other disciplines. Several courses offered by the
department are closely related to philosophy, literature, art
history, science, medicine, political science, sociology or law.
Because of this breadth of scope, it is difficult to prescribe a
structured plan of study. For example, at the upper division
level (courses numbered 300 to 497), students interested in
political history should enroll in the American chronological
period offerings or those of European nations and eras.
Students more concerned with social or intellectual history can
design a program that includes American topical courses and
European epochs.

Prerequisites
All students seeking a history major must complete both the
American history survey (History 101 and 102) and the
Western civilization survey (History 201 and 202) before
graduation. Civilizations of the Ancient World (History 206)
may be taken as an alternative to History 201 and World
History World Civilization Since 1600 (History 208) may be
taken as an alternative to History 202. The department
recommends that these courses be taken before beginning 300-
and 400-level courses.

Requirements
A major in history consists of at least 27 credits of 300 to
400-level coursework with a maximum of 45 credits. Students
must achieve at least a grade of C- in all courses taken for the
major. Courses in which the grade D is earned cannot be
counted toward the major.

History 301WI, Historiography and Method, is required
for majors. It should be taken at the beginning of the junior
year and is a prerequisite for History 498WI.

History 498WI, Senior Tutorial, is required for graduation.
History majors should take it in their final term before
graduation. History 301WI and 498WI cannot be taken in the
same semester.

Students normally concentrate in American or European
history, but students are required to complete at least one
course in the history of the non-Western world, a course that is
neither American nor European. Courses that satisfy this
requirement include 20th Century Asia (History 424R); Islam
and the Arabs (History 444R); Ottoman Empire (History 445);
Modern Middle East (446R); Japanese Civilization (462J); and
any others designated by the department. Students should see
the undergraduate adviser if they are not certain about a course
for this requirement.

Students may apply only three 1 credit-hour courses
toward their major; additional 1 credit-hour courses will apply
to general degree requirements.

Please see the undergraduate adviser regarding the
counting of Program for Adult College Education blocks and
cluster courses toward the required credits in history.

Plan of Study
Freshman Year

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<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
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<tbody>
<tr>
<td>History 201 - Western Civilization to 1600 or History 206 - Civilizations of the Ancient World</td>
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<tr>
<td>Area requirements/electives</td>
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<table>
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<tr>
<th>Winter</th>
<th>Hours</th>
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<td>History 202 - Western Civilization Since 1600 or History 208 - World Civilization Since 1600</td>
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Sophomore Year

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<td>Area requirements/electives</td>
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<th>Winter</th>
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<tbody>
<tr>
<td>History 102 - American History Since 1877</td>
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Junior Year

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<td>Other history courses</td>
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Senior Year

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<td>History 498WI - Senior Tutorial</td>
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<tr>
<td>Other history courses</td>
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Program Minor
A minor in history may be earned with a minimum of 18 credit
hours of course work in the discipline (at least 12 of which
must be at the 300- and 400-level). A maximum of 6 of the 18
credit hours may be taken in two of the 100- and 200-level
survey courses. The 1 credit-hour courses may not be used as
part of the minor.

History Courses

101 American History to 1877 (3). This course covers the evolution
of American civilization from its colonial beginnings to Reconstruction. It is not a prerequisite for 102. Fall, winter, summer.

102 American History Since 1877 (3). This covers American history from the
end of Reconstruction to the present. History 101 is not a prerequisite for this
course. Fall, winter, summer.

201 Western Civilization to 1600 (3). 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.

202 Western Civilization Since 1600 (3). 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 Napoleon; European Romanticism and Science 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.

206 World History to 1600 (3). 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.

208 World Civilization Since 1600 (3). 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.

250 Introduction to American Studies (3). An introduction to the American Experience through the study of selected themes and issues that stress continuity and change. Topics include community, family, ethnic groups, rural 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.

300CM Cluster Course: Mexico, Central America and the Human Condition (3). 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 core requirement for the B.A.

301WI Historiography and Method (3). 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.

302 America,1000-1763: The Formative Era (3). Early American history encompassed the formation 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

303 America, 1763-1783: The Revolutionary Heritage (3). 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

304 America, 1783-1828: The National Experience (3). 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.

305 America, 1828-1852: The Jacksonian Period (3). 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 movement, the Mexican War, the growing sectional split, and the Compromise of 1850. Also offered as History 505.

306 America, 1850-1877: Civil War and Reconstruction (3). 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 events in relation to the emergence of the "reconstructed" and "redesigned" nation. The course covers the years 1850 to 1877. Also offered as History 506.

307 America 1877-1917: Development of Industrial America (3). 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, industrialists, laborers, immigrants, professionals and major ethnic-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.

308A America: 1914-1945: The Era of the World Wars (3). 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 increasing indusrialization. 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.

308B America: 1945-Present: Our Times (3). 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 coexistence of corporate wealth and poverty, the persistence of poverty amidst plenty, and the changing status of American minority groups.

310WI History of Modern Computing (3). 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. Students will research and write short individual research projects in the form of a paper on a topic 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

353 Immigrants and Immigration in American History (3). 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.

354R Women in Modern America (3). 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 on the roles of women. Also offered as History 554.

355A Indians of South America and the European Invasion (3). Origins and Latin America. Consideration of the origins of Indian culture throughout the Western hemisphere is followed by an analysis of the 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.

355B Indians of North America to 1789 (3). The history of the native peoples of North America from their origins to the era of the American Revolution. Prerequisite: None. Offered: Fall.

355BB Indians of North America Since 1789 (3). 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 555B. Indians of North America to 1789. Prerequisite: None. Offered: Winter.

356 Rise of the City in the U.S. (3). 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.

356R Kansas City: History of a Regional Metropolis (3). 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 study of 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.

357 The American West (3). 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.

360R Constitutional History of the United States (3). 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.

361 American Foreign Relations (3). 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 which have shaped this area of American development. Also offered as History 561R.

366RR American Labor History (3). 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.

368 Girlhood and Boyhood in America (3). 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 shaped the lives of children and adolescents and explore the active role they have played in shaping their lives and American culture. We will make sure 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

370 Introduction to Material Culture (3). 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.

391 Archival Methods (3). 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 portions 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.

392A Archival Internship (3). 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.

392B Public History Internship (3). 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 exhibits, editing, fund-raising, historical research and writing. Each student must make individual arrangements through the department. Also offered as History 592B.

393 Museum Science (3). 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.

394 African American History Before 1877 (3). 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.

395 African American History Since 1877 (3). 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 such as multiculturalism and pluralistic society are also addressed. Prerequisite: None.

400 Special Studies (1-3). 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.

400CF Cluster Course: Courts and Culture in the High Middle Ages (3). 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 depth 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

400CI CC:Culture,Kultur,Civilisation:Identity Formation in Middle Class (3). 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 through assimilation and efforts to gain power, respectability, and status. Class assignments will include historical, literary, theatrical, anthropological, and cinematic-graphic sources. Offered: WS 2001

400CS Cluster Course:Clio&the Other Muses:Hist&Culture 5th Cent Athens (3).

411A Medieval Civilization I (3). 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.

411B Medieval Civilization II (3). See History 400CF/500CF for course description. Also offered as History 512.

412A Women and Family in Medieval and Early Modern Europe (3). 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. Offered: On demand.

412B The Black Death and Late Medieval Society (3). 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.

413 Renaissance (3). 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.

414 Reformation (3). 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 and the end of the Middle Ages and the beginning of the modern secular era. Also offered as History 514.
415B Age of the Baroque (3). A comparative approach to the developing European states system in the 17th century, as characterized by growth of royal absolutism and countervailing revolts. Concepts of general crisis, baroque world-view, and modernization are applied from a variety of perspectives (social, economic, political, institutional, intellectual, cultural); and culminating in absolutism on the French model of Louis XIV. Crises, revolutions, reforms and reconstructions of states on more modern lines are related to the growth of bureaucratic administrations, mercantilist economics, standing armies and navies, and academies of arts and sciences, within a broader European framework of international relations, new rationalistic and scientific attitudes, and baroque culture. Also offered as History 515B.

417R Nations & Empires: Europe in the 19th Century (3). This course is about one of the most exciting periods in European history—a time that was marked by an avid nation building, world-wide empire, rapid industrialization, and ultimately, the introduction of critical technical innovations like the telephone, the wireless telegraph, the x-ray, the cinema, bicycle, automobile, and airplane. It was also a time out of which stream of consciousness writing, psychoanalysis, cubism, and the theory of relativity emerged. It was in, that period of rapid change and adjustment, full of exciting opportunities and an array of social, political, and cultural discontent. The course begins with the nation making that followed in the wake of the Napoleonic era and it ends with the destruction of the German Empire in the First World War. The goals of this course are to explore the period leading up to that war and to try to understand the many-sided richness of Europe during this period. We will explore the ways in which society, culture, and politics influenced each other and gave rise to a range of new intellectual, political, and cultural movements that shaped the world as we know it.

418R The Age of Extremes: Europe in the 20th Century (3). This course is about an age of extremes, one marked by extraordinary violence and unprecedented peace, unprecedented poverty and ever-rising standards of living and devastating depressions, technological wonders and technological horrors. The emphasis of this course is on human experience, and we will concentrate on analyzing the role of war, revolutions, and popular movements in shaping the politics and culture of modern Europe. Against this background of political upheaval and renewal, we will pay particular attention to the changing roles of women during the twentieth century, the impact that a heightened awareness of 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 transform- tion of Britain from a largely isolated and agricultural society to an urban and industrial one, will be analyzed with particular reference to class, race, and gender. Finally, the role of the welfare state and the transformation of Britain from a world power to a member of the European community of states.

419R Contemporary European History: 1930-2000 (3). This course is designed to provide students with a general overview of major trends in modern European history in the aftermath of the Second World War; modernity and modernization, racism and mass murder, postwar stabilization and normalization, cold war and imperialism, corporation and organized capitalism, decolonization and dissolution, nonconformist revolt and social change, as well as challenges to the end of the twentieth century. We will explore these issues by themes and through case studies rather than by attempting universal coverage, and there will be a certain emphasis on cultural approaches. All assigned readings will be in English; a general background in European history would be the best.

424R 20th Century Asia (3). A survey of the major states of Asia from the beginning of the present century and the present, focusing on resistance to Western imperialism, national independence and problems of economic and social change. Also offered as History 524.

425R European Criminal Justice History, 500-1900 (3). 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.

426R The Scientific Revolution, 1500-1700 (3). An analysis of the intellectual and social currents which culminated in the Scientific Revolution. After presenting this period in a microhistorical context, we will explore 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.

428A History of the Body (3). 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

428B Women Medicine: Patients & Practitioners From Antiquity to Present (3). 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 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.” Offered: On demand

430R The Ordeal of Total War, Europe, 1939-1945 (3). This course is designed as a comprehensive exploration of the major facets of World War II in Europe. “The Ordeal of Total War” will focus on the scientific, economic, and psychological— as well as the more traditional political-military dimensions of the war. There is a vast literature on the war from which students can select, and lectures and discussions will be supplemented by movies and other visual aids. Topics to be treated include: 1) the outbreak of war and the expansion of Germany; 2) the war and the technological innovations of total war; 3) the wizard war: science and scientific intelligence; 4) propaganda and psychological warfare; 5) Hitler’s new order for Europe and the Resistance Movement; 6) Allied resurgence and the end of Hitler’s Reich; 7) the impact of total war. Also Hist. 530.

431R Medieval England, 1066 to 1485 (3). 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.

432R Tudor England, 1485-1603 (3). 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 532.

433R Modern Britain, 1603-Present (3). 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 transform- tion of Britain from a largely isolated and agricultural society to an urban and 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.

436R Modern German History:1890-1990 (3). 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 German history is recommended. This course follows from Hist. 435/535: the contents and assignments will be coordinated, but the former course is not a prerequisite for the latter.

444R Islam and the Arabs: The Formative Period (3). 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 the pre-Islamic Arab world. This course follows from Hist. 435/535: the contents and assignments will be coordinated, but the former course is not a prerequisite for the latter.

445R The Ottoman Empire in the Middle East to World War I (3). 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 544.

446R The Middle East from World War I to the Present (3). 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 445 are not prerequisites. Also offered as History 546.
462J Japanese Civilization (3). 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.

467 Myth and Ritual (3). "Myth" and "ritual" have long been fundamental categories in the study of religion. This course will briefly survey some of the major theories that have been applied 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.

468R Archaeology and the History of Antiquity (3). This course will analyze the contributions of archaeology to the study 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.

469 Archaeology and Biblical History (3). 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.

470 Ancient Egypt (3). 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 Akhenaten). Also offered as History 570R.

471 Ancient Greece (3). 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.

472 Ancient Rome (3). 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.

473 History of Astronomy (3). 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.

475WI The History of Ancient Israel (3). 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

476 Medieval Jewish History (3). 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.

477 Modern Jewish History (3). 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.

478 The Holocaust and the State of Israel (3). The central events affecting the Jewish people in the 20th century—the Holocaust and the birth of the state of Israel—will be the focal points around which trends in contemporary Jewish life will be analyzed. Also offered as History 578R.

496 Historical Research Project (1-3). 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 301 WI and instructor's approval. Offered: On demand.

497 Special Topics and Readings (1-6). 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.

497A Special Topics and Readings (1-6). 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.

498WI Senior Tutorial (3). 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.

H201 Western Civilization to 1600-Honors (3).
H202 Western Civilization Since 1600-Honors (3).
Honors Program

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Program Director:
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Program Description
The UMKC Honors Program seeks to attract exceptionally motivated and academically talented undergraduates to study in an environment that encourages excellence.

Traditional and nontraditional undergraduates, from every School and College at the University, 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. The 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 year, 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 economics to evolution, from the fine arts to astronomy.

Honors credit may also be received from
- Specially designed honors courses,
- Enhanced classes in many majors,
- Independent study,
- Directed readings,
- Undergraduate research,
- Honors contracts and
- Honors thesis.

In fact, 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 College 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 towards 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 and major courses for honors students,
- Individual advising to prepare honors students to compete for national scholarships (i.e., Rhodes, Marshall, Truman, and Goldwater) and
- A unique summer study-abroad program for students after their first year.

Admission to the Honors Program
To be considered for admission, a first-year student should:

1. Score in the top 10% on the ACT or SAT and
2. Rank in the top 10% of their high school class.

Students meeting these eligibility requirements must submit a completed application to the Honors Program. The application can be found at http://www.umkc.edu/honors/forms.html.

Transfer students generally need to:
- Fulfill those criteria set for first-year students,
- Have a GPA of at least 3.7 or
- Have participated in their previous colleges Honors Program.

In certain cases students with a high GPA may be admitted upon the recommendation of two UMKC professors. For incoming freshmen, a total of 28 hours of honors credit is required to receive a bachelor’s degree with general 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 3.0 is required for all honors students for continued participation in the Honors Program. Students whose overall grade-point average drops below a 3.0 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 3.0 minimum. If, at the end of the grace period, the student’s grade-point average is still below a 3.0, 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, will host a new living-learning community beginning Fall 2004. Located in UMKC’s new residence hall, this community of honors students will have the opportunity to live and learn together through cohort classes, special programs and events, informal interaction with Honors Program 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.
**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 under Learning Programs and Resources in the catalog.

**Undergraduate Honors Club**
The Undergraduate Honors Club is a forum whereby the honors students contribute to the governance of the Honors Program. Traditionally, members are responsible for organizing the social and community service activities for the Honors Program as a whole.
Hospitality Studies Concentration and Minor

5300 Rockhill Road
(816) 235-5954
hspt-st@umkc.edu
http://www.umkc.edu/hsp-st

Faculty Coordinator:
Dan Hoerz

The hospitality industry is one of the most exciting fields available to people in the 21st century and UMKC’s Hospitality Studies Program will prepare students for leadership positions. The industry is comprised of hotels, resorts, restaurants, casinos, convention facilities, theme parks, just to name a few. Hospitality, tourism, and travel has over a $4 TRILLION impact on the world’s economy, ranking it one of the top industries in the world.

The hospitality studies program seeks to promote knowledge of principles and procedures needed to make sound managerial decisions. The objective of the program is education of students in the direction of administrative management rather than skill training. The curriculum is designed for both those working in the hospitality industry and those needing skills to enter the industry at the management level.

Hospitality Studies Concentration

The hospitality studies concentration provides students with the fundamentals of hospitality administration within a liberal arts program, drawing on social science disciplines. The concentration provides students with the fundamentals of hospitality administration within a liberal arts program, drawing on social science disciplines. It may be completed in conjunction with the bachelor of liberal arts degree (B.L.A.) and is open to students with consent from the hospitality studies faculty coordinator. Students pursuing the hospitality studies concentration must take 24 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. Student programs of study must be planned with the faculty coordinator. The courses required for the concentration are:

- Economics 323P: Administration in the Service Industry (4 credit hours)
- Economics 343P: Resource Acquisition & Distribution in the Hospitality Industry (4 credit hours)
- Economics 375P: Contemporary Issues in the Service Industry (4 credit hours)
- Economics 423P: Legal and Social Issues of the Hospitality Industry (4 credit hours)
- Social Science 359P: Technology Policies in Hospitality (4 credit hours)
- Social Science 375P: Contemporary Issues in the Service Industry (4 credit hours)
- Social Science 465P: Human Resources in the Service Industry (4 credit hours)

Hospitality Studies Minor

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:

- Economics 323P: Administration in the Service Industry (4 credit hours)
- Social Science 375P: Contemporary Issues in the Service Industry (4 credit hours)
- Social Science 465P: Human Resources in the Service Industry (4 credit hours)
- Electives (to be approved by the Faculty Coordinator) (2 credit hours)

Hospitality Studies Course Descriptions

The following course descriptions are abbreviated. They are presented here as a convenience only. Please see the appropriate departmental section of this catalog for the official course descriptions.

Economics 323P: Administration in the Service Industry (4 credit hours)
Course examines the nature of service and the role it plays in hospitality. What is service? How do you define service? What makes up the service management system? How the system can be designed, implemented, and improved in an organization. The role of quality in service. How to control quality.

Economics 343P: Resource Acquisition & Distribution in the Hospitality Industry (4 credit hours)
Course examines the purchasing and sales aspects of a hospitality operation. Students will be given readings and do a project in a hospitality operation of their choice specializing in the purchasing and/or sales/marketing function of the operation. Focus on how management uses these functions in the business operation and in conjunction with other resources.

Communication Studies 344/345P: Communication in Organizational Settings (3 credit hours)
Course focuses on developing communication ability and theoretical understanding of communication in organizational settings.

Social Science 359P: Technology Policies in Hospitality (4 credit hours)
Examine the impact of technology in the industry, especially as it impacts the use of human resources. Consequences of relying too heavily on technology. Field trip to examine and research technology use in a hospitality organization. Look at where technology came from, where it is going to go, and how to be proactive in using technology. Some emphasis on the development, growth, and use of information technology in hospitality.

Social Science 375P: Contemporary Issues in the Service Industry (4 credit hours)
Independent study that examines the use of service in a hospitality organization. This course is taken concurrently with the Administration course.

Economics 423P: Legal and Social Issues of the Hospitality Industry (4 credit hours)
Review of legal consideration of hospitality operators (law of innkeepers, third party liability). Examine how these issues impact business management and the use of resources. Also examine current social issues as they impact hospitality from a legal and economic perspective.

Economics 433P: Commercial Economic Aspects of the Hospitality Industry (4 credit hours)
This is a finance and cost control course. Start with a review of basic cost control. Examine how management uses the information to control and plan for production and service in a business. Prepare different types of
budgets (operating, cash, capital, etc.). Examine financial ratios such as return on investment, etc. Learn how to prepare a financial proposal when approaching a money lender.

**Social Science 465P: Human Resources in the Service Industry (4 credit hours)**
Brief review of the HR process. Emphasis will be on use of HR in managing a business. Examination of the evolving role of HR in meeting organizational goals. Interaction between HR and other organizational resources. Examination of the future of HR in hospitality (particularly in reference to technology).

**Social Science 489P: Internship in Hospitality Studies (4 credit hours)**
Directed management internship with a company selected by the student and hospitality studies coordinator. Emphasis will be on directed research and projects emphasizing the functions, role, etc. of management in a hospitality operations. Independent study.

**Arts & Sciences 490: Special Topics (1 credit hour)**
Readings in hospitality administration.

Additionally, there are other hospitality studies courses that are listed in the College of Arts and Sciences as “Special Topics” courses. These courses include:

**Destination Management (3 credit hours)**
The course will survey all aspects of managing in the tourism and hospitality field including economic development, investment promotion, planning, protected area management, historic preservation, cultural resources, performing arts, museums, small business development, sports and recreation, and transportation.

**Introduction to Travel and Tourism (3 credit hours)**
This course will examine the development of tourism from its formal origins to the present and will explore the future of tourism in the new millennium. It introduces new concepts and philosophies in tourism and provides students and practitioners with a well-grounded explanation of new applications of technology, especially E-commerce, to the travel and tourism industry.

**Tourism Geography of the Western Hemisphere (3 credit hours)**
An indepth study of the workings of tourism geography for students interested in the business of tourism. Emphasis will be placed upon practical business and marketing questions and upon developing a working knowledge of tourism geography. Students will use both traditional and internet sources.

**Summer Field Trip-Jamaica (3 credit hours)**
This course concentrates on the economic, environmental and cultural effects of tourism on a developing country. Students will spend 7 days in Jamaica visiting relevant tourism attractions and resorts, the Jamaican Tourism Board, the United States Embassy and the University of the West Indies.
Interdisciplinary Minors and Certificate Programs

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

Faculty Coordinator:
Donald Matthews, associate professor, communication studies, (816) 235-1597

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 African Americans and African Americans here in the United States, as well as in other parts of the world. They also should 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 do substantial work in 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 9 hours at the 300- or 400-level; and a minimum of 9 hours must be earned at UMKC. The program of study is planned with a faculty coordinator.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Arts &amp; Sciences 334 Introduction to African-American Studies</td>
<td>3</td>
</tr>
<tr>
<td>One of the following:</td>
<td></td>
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<tr>
<td>English 331 African-American Literature Survey I</td>
<td>3</td>
</tr>
<tr>
<td>English 333 African-American Literature Survey II</td>
<td>3</td>
</tr>
<tr>
<td>One of the following:</td>
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<tr>
<td>History 394 African-American History Before 1877</td>
<td>3</td>
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<tr>
<td>History 395 African-American History Since 1877</td>
<td>3</td>
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</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 410 Black Women Writers</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 310R The Family</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 313R Sociology of Women</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 322 Race and Ethnic Relations</td>
<td>3</td>
</tr>
<tr>
<td>Additional courses with significant black studies content</td>
<td>3</td>
</tr>
</tbody>
</table>

Required courses with significant black studies content with approval of faculty coordinator

Family Studies Minor and Certificate Program

Room 206B, Manheim Hall
710 E. 52nd Street
(816) 235-2529
familystudies@umkc.edu
http://iml.umkc.edu/programs/familystudies

Program Director:
Deborah B. Smith, assistant professor, Department of Sociology/Criminal Justice and Criminology,
(816) 235-2529

Through its Family Studies Program, the College of Arts and Sciences offers a family studies minor and a family studies certificate to students interested in the welfare and empowerment of American families. This interdisciplinary undergraduate 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 (9 hours core and 9 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.

Academic requirements for the family studies minor (for bachelor of arts or bachelor of science degrees) and the family studies certificate (for bachelor of liberal arts degree) are the same. Students wishing to complete a minor or certificate 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 9 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 towards the required 9 credit hours of electives for the family studies minor or certificate. Consult the front of the class schedule published each semester for a list of classes fulfilling the Family Studies elective requirements.

For more information on enrollment and course requirements, contact the Family Studies Program Director.

Gerontology Minor and Certificate Program

5215 Rockhill Road
(816) 235-2186

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

Program Adviser:
Eliza Kendall, Center on Aging Studies, (816) 235-2186

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**

<table>
<thead>
<tr>
<th>Sociology Core (choose one)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sociology 410R Aging in Contemporary Society</td>
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</tr>
<tr>
<td>Social Science 411P Aging in American Society: Past and Present</td>
<td>4</td>
</tr>
<tr>
<td>Psychology Core (choose one)</td>
<td></td>
</tr>
<tr>
<td>Psychology 440 The Psychology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 441 Adult Development and Aging</td>
<td>3</td>
</tr>
<tr>
<td>Health/Biology Core (choose one)</td>
<td></td>
</tr>
<tr>
<td>Nursing 430 The Experience of Health in Aging</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science 430PC Biological and Ethical Issues in Aging</td>
<td>3</td>
</tr>
<tr>
<td>Field Practicum</td>
<td></td>
</tr>
<tr>
<td>Arts &amp; Sciences 492 Field Practicum in Aging</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Courses**

Electives * 6

* Six 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.

**Healing and Humanities Minor**

Room 2, Scofield Hall
711 E. 51st Street

Faculty Coordinator:
James K. Spence, Pre-Health Coordinator,
(816) 235-5874

The interdisciplinary minor in healing and humanities enables students to explore the complicated nature of health care relationships 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 well into the 21st century, and 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 more humane, holistic approach. The healing and humanities minor builds on a series of interdisciplinary cluster courses team-taught by professors from the arts and sciences and the health sciences. They offer students a different way to look at themselves and others by showing them how reading literature, viewing art, listening to music, watching plays, observing people, developing communication skills, and doing problem-solving tasks can enrich one’s ability to heal.

UMKC’s healing and humanities curriculum appeals to any pre-health or health science student who wishes to develop a strong interdisciplinary foundation for a future health care career. Students pursuing the bachelor of arts or bachelor of science degree who wish to pursue the healing and humanities minor must take at least 18 hours of coursework from the following list, a minimum of 9 hours must be at the 300-400 level and a minimum of 9 hours must be at UMKC.

**Core Minor Requirements:**
Three or more of the following:

- Perspectives in Science and Healing (Cluster: Philosophy 480D, Sociology 303CA);
- Healing and Cultural Diversity (Cluster: Communications Studies 400CT, Psychology 300CT, Sociology 303CT);
- Healing and the Arts (Cluster: Art 300CH, Theatre 300CH);
- Writing, Healing, and the Humanities (specially designated sections of English 225);
- Body Images in Medicine and the Arts (A&S 304CM, Art 300CM);
- Literature: A Healing Art (A&S 420);
- Values, Policies, and Practices in Health Care (Cluster: History 400CE, Philosophy 400CC, English 300CC, Psychology 300CS);

**Selected Electives:**

- American Studies 350: Medical Humanities and American Studies;
- Art History 300CA: Images of the Human Body in the Renaissance (cross-listed as English 400CA);
- Communications Studies 344: Communication in Organizational Settings;
- Communications Studies 431: Colloquium in Interpersonal Dynamics: Health Communication;
- Communications Studies 444WI: Intercultural Communications;
- Economics 465: The Economics of Health and Medicine;
- English 300CO: Issues in Death and Dying (cross-listed as Philosophy 400CO and Sociology 303CO);
- Philosophy 360: Current Issues in Bioethics;
- Psychology 331: An Introduction to Health Psychology;
- Psychology 430: Introduction to Community Psychology and Community Mental Health;
- Psychology 450Q: The AIDS Epidemic (cross-listed as Sociology 300RD);
- Sociology 211: Social and Psychological Development Through the Life Cycle;
- Other electives are available, subject to prior approval.

**The Healing and Humanities Program at UMKC offers:**

- A minor in healing and humanities to better prepare you for the changing health care environment;
- A way to fulfill the interdisciplinary requirement with coursework focusing on healing;
- A flexible schedule including day, evening, weekend and month-long courses;
- A chance for you to meet a diversity of students interested in the health care system;
- A chance for you to develop a strong interdisciplinary foundation for future studies in health care.

**Judaic Studies Minor**
The Department of History is a major participant in the Judaic Studies Minor. Those interested in pursuing this minor should contact Prof. Carla Klausner in the Department of History by e-mail to klausnerc@umkc.edu or phone (816) 235-2540.
Women’s and Gender Studies Minor

Program Director:
Barbara Bonnekessen, cultural anthropology,
(816) 235-5955

To earn a minor in Women’s and Gender Studies, students are required to take 18 credit hours, 9 of which must be in upper-division courses (i.e., 300 or 400). WGS minors may select from among a wide variety of upper-level courses offered by many participating departments within the College of Arts and Sciences. Readings courses on selected topics also may be arranged with individual faculty members. A maximum of 6 credit hours of other coursework focusing on women or gender also may be applied to the minor with the approval of the program director. (However, no more than 9 credits may overlap with the major.)

The program director and other core faculty members are available to provide students with academic advice on course selections and degree requirements as well as career guidance. Students interested in Women’s and Gender Studies should consult with the program director to plan a program of study.

Please contact the program director for a current list of selected courses.
Bachelor of Liberal Arts (B.L.A.)

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./MD 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 on-line 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 masters degree similar in structure to the B.L.A., which continues the tradition of interdisciplinary work in the College at the intermediate level between the 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 on in their undergraduate career.

Curriculum Degree Requirements

Hour Requirements and Eligibility

A 2.0 GPA is required to declare intent to pursue the B.L.A. degree. Additionally, a 2.0 overall GPA is required by the University of Missouri for graduation. At least 30 hours of coursework must be earned after declaration of intent to pursue a B.L.A. degree.

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 towards the B.L.A. degree. Additionally, a maximum of 21 credit hours may be taken from any one department.

Students may select humanities courses from the following departments/areas:

- Art and Art History;
- Communication Studies;
- English;
- Foreign Languages;
- Philosophy;
- Theatre; or
- Other courses designated specifically as Humanities

Specific requirements include:

1. English 110 or Humanities 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 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 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 towards 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: 314, 315, 317, 319, 335, 336, 360, 401, 402, 404, 430, 442, 444, or 448);
- Geology;
- Math;
- Physical Science;
- Physics;
- Biology; or
- 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
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 towards 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, 300, 309, 311, 329, 332, 333, 340, 341, 342, 350, 351, 352, 355, 398, 403, 405, 410, 415, 437, 460, 489, or 496 only);
- History;
- Political Science;
- Psychology;
- Sociology; or
- Other courses designated specifically as Social Science.

Specific requirements include a Constitution Requirement (3 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.

Ophthalmic Technology Concentration

Program Director: James Spence, MPA
Room 2, Scofield Hall
711 E. 51st Street
(816) 235-5874
spencejk@umkc.edu

The College of Arts and Sciences and the Eye Foundation of Kansas City-Department of Ophthalmology, UMKC School of Medicine, have teamed to offer a concentration in ophthalmic technology coupled with the bachelor of liberal arts degree (B.L.A.). The ophthalmic technologist is an important part of the ophthalmic medical team, helping to provide quality patient care through diagnostic testing and patient education. The increasing complexity of ophthalmic diagnostic techniques has created a need for highly skilled technical personnel to guide the patient through the examination process. Excellent employment opportunities are available in private ophthalmology practices, clinical settings, and research.

This program is intended for full-time professional study over a two-year period (including one summer term in the middle of the program) after a minimum of 60 hours of pre-professional courses/B.L.A. requirements have been completed. Ophthalmic technology students will train side by side with the ophthalmology resident physicians at the Eye Foundation of Kansas City. In addition to the ophthalmic technology-specific courses, the students also attend lectures and grand rounds with the resident physicians. The majority of the time, however, is spent in clinical settings, where students gain the practical hands-on experience that makes them valuable additions to the ophthalmology practices that they join upon graduation.

Several program features will ensure that graduates with the ophthalmic technology concentration/B.L.A. degree will receive a well-rounded, hands-on education. The first feature, an innovative series of medical humanities courses, has been designed to teach caregivers how to relate to their patients’ needs, concerns and fears and not simply to their disease or illness. These humanities and social sciences courses will help students fulfill portions of the B.L.A. requirements and also will promote interaction among students pursuing various areas of health care education. The second feature is the state-of-the-art instrumentation that students will have the opportunity to use at the Eye Foundation. The third feature, the incorporation of case studies and hands-on internships/fieldwork, will link the students with professionals who are already working in the field.

Opticianry and operating room experience will be provided to complete the students’ training, leading students to become important members of the eye care team.

Application Process

The deadline is April 1 for enrollment beginning the following fall semester. Later applications will be accepted for consideration if any vacancies remain. Classes formally begin each year at the end of August. Admission is on a selective basis and requires more than simply meeting certain course or grade-point average requirements. Applicants must have a personal interview with the ophthalmic technology admissions committee. 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.
Minimum requirements and credentials for application are as follows:

1. Graduation from an accredited high school or its equivalent.
2. Satisfactory completion of approximately two academic years of college (60 semester hours). 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 ophthalmic technology program. Students taking prerequisite courses at other institutions should contact the faculty director as early as possible for course equivalencies and transfer guidelines.
3. Application to the University of Missouri-Kansas City.
4. Supplemental application for the ophthalmic technology concentration.
5. College transcripts of all college coursework.
6. A cumulative college grade-point average of at least 2.5.
7. Two completed evaluation and recommendation forms.
8. A personal interview with members of the ophthalmic technology admissions committee. Interviews will be scheduled after April.

Suggested Plan of Study

Applicants to the program must have two years of college or the equivalent (decided by the admissions committee on an individual basis). The specific courses listed below are required. The social science and humanities electives should be chosen with the assistance of the faculty director.

Pre-Professional Courses (60 hours minimum)

Year One: Pre- Ophthalmic Technology

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td>English 110</td>
<td>3</td>
</tr>
<tr>
<td>History 101, 102, 360R or Political Science 210</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 210</td>
<td>3</td>
</tr>
<tr>
<td>Math 110 (unless Exempt)</td>
<td>3</td>
</tr>
<tr>
<td>A&amp;S 100 (suggested) or elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter Semester</td>
<td></td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Biology 118 (Anatomy)*</td>
<td>3</td>
</tr>
<tr>
<td>Biology 118L (Anatomy Lab)*</td>
<td>2</td>
</tr>
<tr>
<td>English 225 (Medical Humanities)</td>
<td>3</td>
</tr>
<tr>
<td>Communication Studies 110</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
</tr>
</tbody>
</table>

* Or other approved Science/Lab.

Take the WEPT at the end of the semester.

Year Two: Pre- Ophthalmic Technology

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Writing Intensive Course**</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>

** English 304WI (Writing and Technology) suggested.

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter Semester</td>
<td></td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>A&amp;S 240 Analysis of Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science 100</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>

Concentration Curriculum

The professional courses for the ophthalmic technology concentration program begin in August of each year and continue for two academic years with a summer session between years. Only those students who have been officially accepted into the ophthalmic technology program may enroll in the professional-level courses. The courses are taken in the order detailed below:

Ophthalmic Technology Professional Courses

Year Three: Ophthalmic Technology

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td>Nat Sc 321 Clinical Optics I</td>
<td>3</td>
</tr>
<tr>
<td>Nat Sc 330 Ocular Anatomy &amp; Physiology</td>
<td>2</td>
</tr>
<tr>
<td>A&amp;S 250 Ophthalmic Procedures and Practices</td>
<td>1</td>
</tr>
<tr>
<td>A&amp;S 260 Introduction to Clinical Skills</td>
<td>4</td>
</tr>
<tr>
<td>A&amp;S 361 Ophthalmic Technology Seminar I</td>
<td>1</td>
</tr>
<tr>
<td>A&amp;S 310A Ophthalmic Technology Practicum I</td>
<td>1</td>
</tr>
<tr>
<td>Nat Sc 311 Pharmacology/Eye Disease I</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter Semester</td>
<td></td>
</tr>
<tr>
<td>Nat Sc 322 Clinical Optics II</td>
<td>3</td>
</tr>
<tr>
<td>Nat Sc 312 Pharmacology/Eye Disease II</td>
<td>2</td>
</tr>
<tr>
<td>Nat Sc 351 Fund. &amp; Prin. Contact Lenses I</td>
<td>3</td>
</tr>
<tr>
<td>A&amp;S 362 Ophthalmic Technology Seminar II</td>
<td>1</td>
</tr>
<tr>
<td>A&amp;S 310B Ophthalmic Technology Practicum II</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>13</td>
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</tbody>
</table>

Summer Semester

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nat Sc 340 Ocular Motility</td>
</tr>
<tr>
<td>Nat Sc 334 Diagnostic Procedures I</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

Year Four: Ophthalmic Technology

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td>Nat Sc 352 Fund. &amp; Prin. Contact Lenses II</td>
<td>3</td>
</tr>
<tr>
<td>Nat Sc 353 Perception &amp; Low Vision</td>
<td>2</td>
</tr>
<tr>
<td>Nat Sc 335 Diagnostic Procedures II</td>
<td>4</td>
</tr>
<tr>
<td>A&amp;S 363 Ophthalmic Technology Seminar III</td>
<td>1</td>
</tr>
<tr>
<td>A&amp;S 410A Ophthalmic Technology Practicum III</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter Semester</td>
<td></td>
</tr>
<tr>
<td>Nat Sc 354 Therapeutic Assisting Procedures</td>
<td>4</td>
</tr>
<tr>
<td>Nat Sc 355 Surgical Assisting Procedures</td>
<td>4</td>
</tr>
<tr>
<td>A&amp;S 364 Ophthalmic Technology Seminar IV</td>
<td>2</td>
</tr>
<tr>
<td>A&amp;S 410B Ophthalmic Technology Practicum IV</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>14</td>
</tr>
</tbody>
</table>

Requirements for Graduation

1. Students are expected to complete all requirements for the bachelor of liberal arts degree.
2. Completion of the requirements for the concentration in ophthalmic technology.
3. A 3.0 (B) grade-point average.
4. A minimum of 120 credit hours.
5. All other requirements for graduation as stated by the College of Arts and Sciences.
Department of Mathematics and Statistics

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

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Department of Mathematics and Statistics
HH 206
5100 Rockhill Road
Kansas City, MO 64110-2499

Interim Department Chair:
Bruce S. Bubacz (816) 235-1641

Emeriti Faculty:

Associate Professors:
Jie Chen (principal graduate adviser), Noah H. Rhee (undergraduate director)

Assistant Professors:
Eric J. Hall, Hristo D. Voulov, Yong Zeng

Visiting Assistant Professor:
Richard Delaware

Instructor:
Rebecca S. Roberts

Department Description
The Department of Mathematics and Statistics offers coursework leading to the bachelor of arts and bachelor of science degrees in mathematics and statistics. The graduate degrees are the master of arts and master of science degrees, 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 knowledge of mathematics itself and to provide the tools and understanding necessary for the study of other scientific and quantitative fields.

The Department of Mathematics and Statistics has institutional memberships in the American Mathematical Society and the Mathematical Association of America.

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 director 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.

Undergraduate Programs
Bachelor of Arts/Bachelor of Science in Mathematics and Statistics
The undergraduate curriculum in mathematics and statistics comprises courses in algebra, analysis, applied mathematics, geometry, number theory and statistics.

Degree Requirements
For a bachelor’s degree in mathematics and statistics, students must satisfy the general requirements of the College of Arts and Sciences and complete the program described below.

Degree requirements are Mathematics 210, 220 and 250, and a minimum of 21 hours of coursework in mathematics at the 300-level or above, including Mathematics 300, the capstone course 402, and either 410 or 420. To obtain a bachelor’s degree in mathematics, a student must satisfactorily complete at least four courses at the 300-level or above in the department. The bachelor of science degree in mathematics requires a minimum of 60 credit hours of combined math 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 appropriate sequence. Students should consult with a mathematics adviser in planning 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.

Teacher Certification in Mathematics
Certification as a middle school (grades 5-9) or secondary (grades 9-12) Math teacher in either Kansas or Missouri requires that a student complete specific requirements in Math 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.

Mathematics Courses
100 Introductory Algebra (3). 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, summer.

110 College Algebra (3). 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.

116 Mathematics for Liberal Arts (3). A survey of elementary mathematics covering such topics as: the development of the real number system, plane and coordinate geometry and introductory probability theory. 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).

120 Algebra and Trigonometry (5). 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.
125 Trigonometry (2). 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.

130 Number Systems and Applications (3). 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. Fall.

140 Elementary Geometry (3). 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. Winter.

160 Mathematical Analysis for Business and Social Sciences (3). Brief review of selected topics in algebra. Introduction to matrix algebra. Introduction to differential calculus and optimization. Applications to problems in business. Prerequisite: Math 110 or equivalent. Offered: Every semester.

205 Discrete Mathematics (3). 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.

210 Calculus I (4). Lines, functions and graphs, limits and continuity, differentiation and its applications, integration, and the trigonometric, logarithmic and exponential functions. Prerequisite: Four units of high school mathematics including trigonometry, or Math 120, or Math 110 and Math 125 or Math 202. Offered: Fall, winter, summer.

220 Calculus II (4). Trigonometric functions, techniques of integration, application of the definite integral, sequences and series. Taylor series, L'Hospital's rule, and improper integrals. Prerequisite: Math 210. Fall, winter, summer.

235 Elementary Statistics (3). 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. Prerequisite: 4 units high school math or MATH 110. Offered: Fall, winter, summer.

250 Calculus III (4). Vectors, solid analytic geometry, partial derivatives, multiple integrals, line and surface integrals, ordinary differential equations. Prerequisite: Math 220. Fall, winter, summer.

300 Linear Algebra I (3). Real number system, vectors, matrices, linear equations, determinants, polynomials and complex numbers, vector spaces and linear transformations, vector spaces with an inner product. Prerequisite: Math 220. Fall, winter, summer.

301 Sets and Algebraic Structures (3). Elements of set theory, construction of the real number system, ordinal and cardinal numbers, transfinite methods, foundations of algebra and topology. Prerequisite: Math 220. Winter.


400 Introduction to Number Theory (3). 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.

402 Advanced Analysis I (3). 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, and sequences and series of functions. Prerequisite: Math 300 and one of 250 and 301.

406 Partial Differential Equations (3). 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.

407 Applied Complex Variables (3). 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. Prerequisite: Math 345. Offered: Fall.

410 Modern Algebra (3). Groups, rings, integral domains, fields and polynomial rings. Prerequisite: Math 300 and one of 250 and 301. Fall.

412 Advanced Analysis II (3). Topics in advanced analysis such as power series and elementary functions. Fourier series, metric spaces, topology of Euclidean space, Riemann-Stieltjes integration, improper integrals, gamma and beta functions, and functions of a complex variable. Prerequisite: Math 402. Winter.

420 Linear Algebra II (3). Vector spaces and modules, linear transformations and matrices. Prerequisite: Math 300 and one of 250 and 301. Fall.

430 Numerical Analysis I (3). Theory of errors, solution of linear and nonlinear systems of algebraic equations, inversion of matrices and eigenvalues of matrices, finite differences, interpolation, numerical differentiation and numerical integration. Least squares methods. Prerequisite: Math 250 and 300 or consent of instructor.

436 Introduction to Mathematical Statistics (3). 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.


441 Introduction to Math Statistics II (3). Sampling Distributions; point estimation, internal estimation, hypothesis testing; analysis of variance; nonparametric methods; statistical software applications; topics in Applied Statistics. Prerequisites: Math 436. Offered: Winter.

444 Modern Geometries (3). Finite geometries as axiomatic systems; Euclidean and non-Euclidean geometries, geometric transformations beginning with isometries and similarities, progressing to affinities, with an axiomatic approach to projective geometry. Prerequisite: Math 300. Offered: Fall.

464WI History of Mathematics (3). Topics in the History of Mathematics from Babylonian times to the present. The course will emphasize elementary mathematics, and include the invention of Calculus and the development of non-Euclidean geometry and infinite cardinal numbers. This course is of special interest to secondary mathematics teachers, as well as mathematics majors. Since this course is writing intensive, two ten (10) page expository papers, not including title and bibliography pages, are required, as well as two book review/essays on two required books. There are also essay questions which appear on the exams and quizzes, and a response/report required for a field trip to the Linda Hall Library Rare Book Room. Prerequisite: MATH 210 and junior standing. Offered Winter.

490 Special Topics (1-3). Selected topics in various fields of mathematics. May be repeated for credit when the topic varies. Prerequisite: consent of instructor. On demand.
Military Science

Assistant Professors:

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.

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.

Military Science Courses

100 Introduction to Military Operations (1). 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.

201 Introduction to Military Leadership and Communication (2). 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

202 Military Leadership & Communication II (2). 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

205 Reserve Officer Training Corps (3). 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.

210 Map Reading and Land Navigation (1). 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.

220 Urban and Field Survival Skills (1). 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.

300 Leadership and Management I (3). 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.

310 Small Unit Leadership and Tactics (3). 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.

400 Leadership and Management II (3). 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 MS300 and MS310. Offered: Fall.

410 Army Management and Organizational Systems (3). 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 MS300 and MS310 or consent of the department chairperson. Offered: Winter.

497 Leadership and Management Practicum - Directed Study (1-3). 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.
Program Description
The Program for Adult College Education (PACE) provides a course delivery system to nontraditional students who need evening and weekend class hours and who wish to earn a bachelor’s degree. PACE courses are primarily offered in 12-hour blocks, arranged by theme or issue. Each 12-hour block includes a weeknight class that meets once a week all semester, a weekend course that meets four weekends during the semester (once a month), and a modified independent study that is arranged by the instructors of the block. Currently, there are over forty (40) PACE blocks designed to provide the student with an interdisciplinary examination of issues conducive to understanding complex issues in an increasingly global workforce. In order to maximize flexibility and accommodate individual student academic interests, students can generally customize their degree by selecting from among the forty blocks, portions of blocks and taking individual courses. Additionally, an increasing number of Web-based courses also are available.

Bachelor of Liberal Arts Degree (B.L.A.)
The B.L.A. with no major is the most popular degree for nontraditional students who study 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; and written and oral communication skills.

Bachelor of Liberal Arts Degree (B.L.A.) With a Concentration Area
The B.L.A. with a 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. 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. Currently 22 areas of concentration are available within the College of Arts & Sciences. Some concentrations may require the combination of PACE and regular departmental coursework. However, the following concentration areas can be primarily obtained through PACE course offerings: American studies, communication studies, computer media & technology, disability studies, economics, film studies, history, hospitality studies, political science, sociology, criminal justice and criminology, 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. Students desiring to combine PACE coursework with a B.A./B.S. degree should contact the respective academic department in which the major or minor is awarded. Degrees associated with an academic unit’s evening division are recommended for this process.

Entry Into Graduate/Professional Degree Programs and PACE
The PACE Program provides to students the ability to achieve a 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, family 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 adviser who will assist them from admissions, through the academic process, to graduation. Students should consult the PACE Student Services Coordinator for issues that impact their academic goals.

PACE Curriculum
PACE also participates in certificate programs 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.

PACE Blocks
I. The Social Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SOCSC 101P</td>
<td>The Social Environment</td>
</tr>
<tr>
<td>SOCSC 102P</td>
<td>Introduction to Social Science</td>
</tr>
<tr>
<td>SOCSC 103P</td>
<td>Dynamics of Western Civilization</td>
</tr>
<tr>
<td></td>
<td>12 hours of social science</td>
</tr>
<tr>
<td>SOCSC 102P</td>
<td>meets constitution requirement</td>
</tr>
</tbody>
</table>

II. Rites of Passage: Individuals Through the Ages

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>HUMN 104P</td>
<td>Themes of Individuality</td>
</tr>
<tr>
<td>HUMN 105P</td>
<td>Literature, Composition and Critical Thinking</td>
</tr>
<tr>
<td>HUMN 106P</td>
<td>The Individual in Literature, Philosophy and Art</td>
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<td></td>
<td>12 hours of humanities</td>
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<tr>
<td>HUMN 105P</td>
<td>meets ENGL 110 requirement</td>
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<tr>
<td></td>
<td>For B.A./B.S., HUMN 106P meets philosophy requirement</td>
</tr>
</tbody>
</table>
III-B. Changing Life on Earth
NATSC 101P Changing Life on Earth
NATSC 102P Fundamentals of Life Science
NATSC 103P Applications of Life Science
12 hours of natural science
NATSC 103P meets laboratory requirement

III-C. Chemistry
CHEM 180P Basic Chemistry
CHEM 181P Experimental Basic Chemistry
CHEM 182P Special Projects in Chemistry
12 hours of natural science
CHEM 181P meets laboratory requirement

IV. Myth and Meaning
HUMN 201P The Many Lives of Dr. Faust
HUMN 202P The Meaning of the American Experience
HUMN 203P American Dreams: Four Major American Myths
12 hours of humanities
HUMN 202P meets ENGL 225 requirement
For B.A./B.S., HUMN 203P meets literature requirement

V. Computer Science
CMPSC 106P Computers: Their Uses and Impact
CMPSC 105P Foundations of Computing and Problem Solving
COMS 260P Introduction to Web Communications
For B.A./B.S., CMPSC 105P meets computer and information technology requirement
4 hours humanities and 8 hours natural science

VI. Economic Principles
SOCSC 397A The Economics of Public Process I
ECON 201 Introduction to Economics I
ECON 202 Introduction to Economics II
SOCSC 395C Economics of Energy
SOCSC 395I Views of a Good Society
ECON 366 Art Markets
12 hours of social sciences; courses numbered 300 and above give junior-senior credit

VII. Leaders, Representatives or Bureaucrats: Who Governs?
POLSC 407P Politics of Representation
POLSC 409P Bureaucratic Politics
POLSC 406P Political Leadership
12 hours of social science, junior-senior level
POLSC 409P meets constitution requirement

VIII. Interdisciplinary Studies: From Birth to Death
INTDIS 401P The Natural Life Cycle
INTDIS 402P Literature of Life Science
INTDIS 403P Stages of Growth
For B.L.A., the courses in this block may be distributed across the three areas of humanities, social sciences, and natural sciences with enrollment in 12 hours a maximum of 6 hours may be counted in any one area; junior-senior level

IX. Commercial Economics
SOCSC 403P Industrial Organization Applications
ECON 353 Financial Analysis and the Economy
SOCSC 395B The Economics of the Law
9 hours of social science; junior-senior level

X. American Studies
AMST 301P Themes in American Popular Art
AMST 302P Survey of American Culture
AMST 303PW Methods and Problems in American Studies
May be used as humanities or social sciences, course by course, as needed by student; junior-senior level

XI. The Ancient World
HIST 470P The Social History of the Ancient World
HIST 471P The Political Structure of the Ancient World
HIST 472P The Cultural/Intellectual Dimension of Ancient Civilizations
8 hours social science, 4 hours humanities; junior-senior level

XII. The Writer’s Tools: Mind, Society, Language and Language Use
ENGL 460PW Written Discourse: Speaking, Writing, Composing
HUMN 461P Interpreting Past and Present Rhetorical Practices
HUMN 462P Analyzing Modern Discourse Communities
12 hours humanities; junior-senior level

XIII. Technology and Society: General Introduction
HIST 330PW The Works of Western Man
HIST 331P America in the Machine Age
HIST 332P The City: Past and Present
May be used as 12 hours of social science or 8 hours social science and 4 hours of humanities; junior-senior level

XIV. Labor and Economics
HUMN 401PW Culture of the Working Class
SOCSC 438P Labor History and Economic Policy
HIST 400Z Special Topics: Kansas City Labor History
ECON 486 Labor Economics
SOCSC 490C Readings in Labor Economics
4 hours of humanities and 8 hours social sciences; junior-senior level

XV. Images of Aging in America
INTDIS 350P Interdisciplinary Perspectives on Aging: Readings and Film
HUMN 408P Images of Aging in Literature
NATSC 430PC Biological and Ethical Issues in Aging
PHIL 401PC Biological and Ethical Issues in Aging
SOCSC 411P Aging in American Society: Past and Present
INTDIS 350P gives 4 hours of either humanities or social sciences credit
HUMN 408P gives 1 hour of humanities credit
PACE/Program for Adult College Education

NATSC 430PC gives 3 hours credit in natural sciences
PHIL 401PC gives 3 hours credit in philosophy
SOCS 411PC gives 4 hours of social sciences credit
For B.A./B.S., NATSC 430PC and PHIL 401PC meet “cluster course” requirement

XVI. Intercultural Studies in The New Millennium
INTDIS 310P Global Political and Social Issues in the New Millennium
HUMN 320P International Art and Culture
POLSC 358 Global Political and Social Issues
4 hours humanities and 8 hours social science; junior-senior level

XVII. Disabilities in American Life
(Courses offered will vary each semester.)
HUMN 490P Perceptions and Images of Disabilities in Literature and Film
PSYCH 406P Introduction to Developmental Disabilities
PSYCH 407P Developmental Disabilities and Community Life
INTG 425P Integrative Seminar in Disability Studies
INTG 430P Developmental Disabilities: Partners in Policymaking

XVIII. Macroeconomics Block
ECON 397CP Current Macroeconomics Issues
ECON 331P Money and Banking
ECON 301P Macroeconomic Analysis
ECON 308 Challenges Facing the US Economy
12 hours social sciences; junior-senior level

XIX. Art
A&S 400P Special Readings/Topics: Current Art Events
ART 110P Introduction to the Visual Arts
6 hours humanities; 3 hours junior-senior level
For B.A./B.S., ART 110P meets fine arts requirement

XX. Criminal Justice and Society
CJC 101 Introduction to Criminal Justice
CJC 355P Crime and Public Policy
CJC 421 Criminal Behavior in the United States
CJC 475 White Collar Crime
12 hours social sciences; 9 hours junior-senior level

XXI. The Family
PSYCH 322P Child Psychology
SOCS 310P The Family
6 hours social sciences; junior-senior level

XXII. Family Studies
HUMN 452P Images of the Family in Art and Literature
PSYCH 453P Family Life Cycle: A Developmental Approach to Understanding Family Dynamics
HIST 454 Historical Perspectives of the Family in Christian, Judaic and Islamic Cultures
4 hours humanities, 8 hours social sciences; junior-senior level

XXIII. Anthropology
SOCS 307P Controversial Issues from an Anthropological Perspective
INTDIS 308P Introduction to Physical Anthropology
SOCS 309P Cultures of the Past and Present
INTDIS 308P (may be used as 4 hours natural science or social science as needed)

XXIV. Interdisciplinary Studies
INTDIS 201P Energy, Technology and Society
INTDIS 202P Energy Science
INTDIS 203P Social, Economic and Political Influences on Energy
INTDIS 201P (may be used as 2 hours natural science, 2 hours social science)
INTDIS 202P (may be used as 4 hours natural science)
INTDIS 201P (may be used as 4 hours social science)

XXV. Hospitality Studies
(Courses offered will vary each semester.)
A&S 400H Special Topics: Global Tourism: Western Hemisphere
A&S 400J Special Topics: Summer Field Trip/Jamaica
A&S 490 Special Topics: Readings in Hospitality Administration
COMS 345P Communication in Organizational Settings
ECON 323P Administration in the Service Industry
ECON 343P Resource Acquisition & Distribution in the Hospitality Industry
ECON 423P Legal and Social Issues of the Hospitality Industry
ECON 433P Commercial Economic Aspects of the Hospitality Industry
SOCS 359P Technology Policies in Hospitality
SOCS 375P Contemporary Issues in the Service Industry
SOCS 465P Human Resources in the Service Industry
SOCS 489P Internship in Hospitality Studies

XXVI. Integrated Studies
INTGST 401P The Creative Source: Concepts and Actions
INTGST 402P Turning Points in the History of Ideas
INTGST 403P Major Intellectual Developments in Western History
May be used as humanities or social sciences, course by course, as needed by student; junior-senior level

XXVII. Latin American Studies
SOCS 456P In-Depth Country Study
SOCS 457P First Nations and Survival in Latin America
SOCS 458P Women, Men and Development in Latin America
12 hours of social science; junior-senior level

XXVIII. Fiction Studies
ENGL 352P Critical Approaches to the Short Story
ENGL 353PW Critical Review & Evaluation of Fiction and Film
ENGL 354P Masterpieces of Fiction
12 hours of humanities; junior-senior level
<table>
<thead>
<tr>
<th>XXIX. Religious Studies</th>
<th>XXXVIII. Film Studies</th>
</tr>
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<tbody>
<tr>
<td>(Courses offered will vary each semester.)</td>
<td>(Courses offered will vary each semester.)</td>
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<tr>
<td></td>
<td>COMST 376 History of the Film Industry</td>
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<td>COMST 380 Contemporary Media Topics</td>
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<td>COMST 400A Tutorial in Film History</td>
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<td>COMST 400K Introduction to Screenwriting</td>
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<td>COMST 400M Advanced Screenwriting</td>
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<td>COMST 400P Introduction to Film</td>
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<td>COMST 400Q Film Analysis</td>
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<td>COMST 400R Major Film Genres</td>
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<tr>
<td>XXX. Environmental Studies</td>
<td>XXXIX. Psychology</td>
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<tr>
<td>(Courses offered will vary each semester.)</td>
<td>A&amp;S 280 Special Topics: The Principles of</td>
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<td></td>
<td>Psychology of Influence</td>
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<td>PSYCH 210 General Psychology</td>
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<td>PSYCH 433 Abnormal Psychology</td>
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<tr>
<td>PLSOC 435P Politics of the Environment</td>
<td>6 hours social science and 3 hours arts and science;</td>
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<tr>
<td>ENVSC 110R Understanding the Earth</td>
<td>3 hours junior-senior level</td>
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<tr>
<td>ENVSC 110L Understanding the Earth Laboratory</td>
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<td>GEOG 319 Descriptive and Synoptic Meteorology</td>
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<tr>
<td>GEOL 220 General Geology</td>
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<tr>
<td>GEOL 220L General Geology Laboratory</td>
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<tr>
<td>XXXXI. Nations and Their Society</td>
<td>XL. Vulnerable Populations</td>
</tr>
<tr>
<td>SOCSC 301P Varieties of People and Society</td>
<td>INTDIS 380P People with Special Needs:</td>
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<tr>
<td>SOCSC 302P Power and Authority</td>
<td>Educational Planning</td>
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<tr>
<td>SOCSC 303P National Perspectives of Capitalism and Liberal Society</td>
<td>INTDIS 381P People with Special Needs: Career</td>
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<tr>
<td></td>
<td>Exploration</td>
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<td></td>
<td>INTDIS 382P People with Special Needs: Disability</td>
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<td>Service Settings</td>
</tr>
<tr>
<td>12 hours of social science; junior-senior level</td>
<td>12 hours social science; junior-senior level</td>
</tr>
<tr>
<td>XXXII. Women’s Culture, Media and Theory in the Age of Feminism</td>
<td>XLI. American Concept of Evil</td>
</tr>
<tr>
<td>HUMN 375P Research in Women’s Culture</td>
<td>AMST 410P American Concept of Evil: Historical</td>
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<tr>
<td>HUMN 376P Textual Representation of the Feminine: “Scribbling Women”</td>
<td>and Cultural Contexts</td>
</tr>
<tr>
<td>HUMN 377P Growing Up Female with the Mass Media</td>
<td>AMST 411P American Concept of Evil: Readings in Primary Sources</td>
</tr>
<tr>
<td>12 hours of humanities; junior-senior level</td>
<td>May be used as humanities or social science, course-by-course, as needed by student;</td>
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<tr>
<td></td>
<td>junior-senior level</td>
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<tr>
<td>XXXIII. Physical Science</td>
<td>XLII. Meaning of Masculinity</td>
</tr>
<tr>
<td>PHYS 301P Scientific Approaches to the Physical Worlds</td>
<td>SOC 381P Everyday Masculinity</td>
</tr>
<tr>
<td>PHYS 302P Concepts of Chemistry, Earth Sciences and Astronomy</td>
<td>INTDIS 482P The Meaning of Masculinity in Contemporary U.S. Culture</td>
</tr>
<tr>
<td>PHYS 303P Applications of Physical Science</td>
<td>INTDIS 483P Artful Man Embodied: Cultural Icons of Masculinity</td>
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<tr>
<td>12 hours of natural science; junior-senior level</td>
<td>4 hours Sociology, 8 hours humanities or social science as needed;</td>
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<tr>
<td></td>
<td>junior-senior level</td>
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<tr>
<td>XXXIV. American Material Culture</td>
<td>XLIII. New Media Services</td>
</tr>
<tr>
<td>AMST 340P American Material Culture - The 20th Century</td>
<td>COMST 421P Multimedia and New Media Streaming</td>
</tr>
<tr>
<td>AMST 341P American Material Culture - Objects and Images</td>
<td>COMST 422P New Media Writing for the WEB</td>
</tr>
<tr>
<td>AMST 342P American Material Culture - Museums</td>
<td>COMST 423P Shooting Digital Video for the WEB and New Media</td>
</tr>
<tr>
<td>May be used as humanities or social science, course-by-course, as needed by student; junior-senior level</td>
<td>COMST 424P WEB Radio</td>
</tr>
<tr>
<td></td>
<td>12 hours humanities; junior-senior level</td>
</tr>
<tr>
<td>XXXV. Addiction Counseling</td>
<td>Additional Courses Offered Through PACE</td>
</tr>
<tr>
<td>PSYCH 270P Compulsive Gambling and Other Addictions</td>
<td>Humanities</td>
</tr>
<tr>
<td>A&amp;S 365P Introduction to Substance Abuse Counseling</td>
<td>COMS 254P Communication Competence: Theory and Practice (Equivalent:</td>
</tr>
<tr>
<td>3 hours social science; 3 hours junior-senior level</td>
<td>COMS 110 Fundamentals of Effective Speaking and Listening)</td>
</tr>
<tr>
<td>XXXVI. Information Technology</td>
<td>HUMN 340PW The World Of Advertising</td>
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<tr>
<td>INFTC 310P Web Design and Development</td>
<td>HUMN 404PW Professional Communications</td>
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<tr>
<td>INFTC 315P Web Graphics and Multimedia</td>
<td>HUMN 410PW Turning Life Into Stories</td>
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<tr>
<td>INFTC 420P CGI Perl</td>
<td>9 hours natural science; junior-senior level</td>
</tr>
<tr>
<td>XXXVII. News and Media Analysis</td>
<td>6 hours humanities; junior-senior level</td>
</tr>
</tbody>
</table>
Natural Sciences
MATH 116 Mathematics for Liberal Arts
(For B.L.A./B.A., meets mathematics requirement)
NATSC 308P Physical Measurements
NATSC 375P Nature of Science
(For B.A., meets physical science requirement)
NATSC 425P Introduction to Quantitative Methods
PHYS 280 Survey of Astronomy

Social Sciences
ANTHRO 425P Comparative Feminist Issues in International Development: Africa & Latin America
ECON 204P Principles of Economics
Five hours social science; equivalent to ECON 201 and 202
ECON 302P Microeconomics
SOCSC 397B The Economics of Public Process II
HIST 102P American History Since 1877
(meets constitution requirement)
SOCSC 210P Foundations in Social Science
(For B.A./B.S., meets SOCSC 210 requirement)

Interdisciplinary
INTDIS 420P Brain and Behavior
2 hours social science and 2 hours natural science

PACE Courses
American Studies Courses
301P American Studys: IS/Tutorial: Themes in the American Popular Arts (4). 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 American Studies 302P and 303PW. Offered: On demand.

302P Survey of American Studies (4). 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 American Studies 303PW. Offered: On demand.

303PW Methods & Problems in American Studies (4). 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 American Studies 302P. Offered: On demand.

340P American Material Culture: The 20th Century (4). 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

341P American Material Culture: Objects and Images (4). 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.

410P The American Conception of Evil: Historical and Cultural Contexts (3). 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 these 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.

411P The American Conception of Evil: Readings in Primary Sources (3). This interdisciplinary course is a companion to American Studies 410P and may focus on understanding documents from the listed time periods in light of their original contexts, as well as developing an understanding of the roots of contemporary definitions of evil. Selections may include Puritan captivity narratives, diary entries, sermons, fiction, poetry, oral histories, WPA interviews with former slaves, films, television shows, and other appropriate materials.

Art and Art History Courses
101P Topical Studies (3).

110P Introduction to the Visual Arts (3). An introduction to the study of art—especially architecture, sculpture, painting and the graphic arts. Consideration given to purposes 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.

Arts and Sciences Courses
170 Special Topics (1-4). An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

280 Special Topics (1-4). An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

365P Introduction to Substance Abuse Counseling: Theory and Practice (3). 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

Chemistry Courses
180P Basic Chemistry (4). 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: Chemistry 181P. Prerequisite: College Algebra or equivalent. This course is equivalent to Chemistry 115.

181P Experimental Basic Chemistry (4). A demonstration/laboratory course designed to support and illustrate the concepts presented in Chemistry 180P. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: Chemistry 180P. Prerequisite: College Algebra or equivalent. This course is equivalent to Chemistry 115L.

182P Special Projects in Chemistry (4). 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: Chemistry 180P. Prerequisite: College Algebra or equivalent.

Communication Studies Courses
254P Communication Competence: Theory and Practice (4). 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 semester.

260P Introduction to Web Communications (4). 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 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.
**Economics Courses**

201P Introduction to Economics I (3). Economics I deals primarily with macroeconomic or national economic concepts, the economics of the determination of recession, inflation, maintenance of full employment and economic growth, with an emphasis upon the economics of modern Keynesian analyses. It further introduces the economics of Marx and Ayres and discusses relevant and current economic issues. Economics 201P and 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every semester.

202P Introduction to Economics II (3). 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. Economics 201, 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every semester.

204P Principles Of Economics (5). 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.

301P Macroeconomic Analysis (3). 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.

302P Microeconomic Analysis (3). 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.

331P Money and Banking (3). A study of the structure, operations and products 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.

397CP Current Macroeconomic Issues (3). This is an independent studies course which addresses such macroeconomic issues as courses 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.

490C Readings in Economics: Labor Economics (1-3).

**English Courses**

352P Critical Approaches to the Short Story (4). In this course the student will explore the short story as a literary genre. Stories will range from the early masters such as Chekov, Katla, and Hawthorne through the offerings from Lessing, Mishima, and Aschebe. 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 midterm and a final examination. Prerequisites: None. Offered: Fall.

353PW Critical Review & Evaluation of Fiction and Film (4). 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 groups 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.

354P Masterpieces of Fiction (4). The goal of this independent study is to provide the student with time and space to read and respond to 7 to 10 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.
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. Offered: Fall.

460PW Written Discourse: Speaking, Writing, Composing (4). Prerequisite: Successful completion of the WEPT (effective FS93).

History Courses

102P American History Since 1877 (3). 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.

330PW The Works of Western Man (4). In the period 1750-1987, the nations bordering the Atlantic Ocean, largely relying on their technological advances, became the 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).

331P America in the Machine Age (4). 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 marketplace 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.

332P The City: Past and Present (4). This course treats the built environment, especially the urban infrastructure. Both systems and structures of the cityscape are examined from a historical perspective, with three metropolises (Rome, Paris, New York) and Kansas City serving as case studies. The technical areas include shelter, public buildings, transportation, water supply, power, waste management, communications, and the like. Projects are included. Offered: Every 2 years.

400Z Special Studies (1-3).

454 Historical Perspectives of Family in Christian, Islamic, Judaic Cul (4). The relationship of the family and religious cultures is studied via historical analysis of three faith traditions - Christian, Islamic, and Judaic - from their beginnings to the present day. The four weekend class meetings will provide students with a general knowledge of the historical impact of these faith cultures upon the family. Religious artifacts and iconography, popular culture (films), and other historical texts will provide both an illustration and a method for understanding the role of the family in these faith traditions.

470P Ancient World: The Social History of the Ancient World (4). 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, and write a five-page paper about that topic for each period, i.e., Mesopotamia, Egypt, Greece and Rome.

471P Ancient World: The Political Structure of the Ancient World (4). The four-hour lecture period on weekdays 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.

472P Ancient World: The Cul/Intellectual Dimension of Ancient Civi (4). The four-week 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.

Humanities Courses

104P Indep Study/Tutorial: Spec Applications: Themes of Individuality (4). 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.

105P Literature, Composition & Critical Thinking: Individual & Society (4). 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.

106P The Individual in Literature, Philosophy and Art (4). 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.

201P The Many Lives of Dr. Faust (4). 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.

202P The Meaning of the American Experience (4). 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 and thinkers about 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.

203P American Dreams: Four Major American Myths (4). This course examines several meanings of four major American myths: the Puritan myth, the myth of the land, the myth of individualism and the myth of the machine. Students will examine works of literature, art, and film in order to comprehend the meaning of myth in their own culture and grasp the way in which cultural artifacts shape and express current values in American life. The course will take special note of the Faust myth’s relevance in American culture. Prerequisites: Concurrent enrollment in Humanities 202P. Offered: Winter.

320P International Art and Culture (4). At the beginning of the new Millennium, this PACE course should heighten students’ awareness of the values, aesthetics and historical baggage of a particular culture as it introduces them to the dynamics of a rapidly changing world. Language, literature and art history (in the broadest sense, from fine arts to advertising) will be the in-roads to the culture and will deepen students’ insights into contemporary events. Offered: Winter.

340PW Professional Communication (4). In this course students will study formats for various types of technical reports, from research completion reports, most of which will use as content research projects assigned in the independent student 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).

401PW Professional Communication (4). In this course students will study formats for various types of technical reports, from research completion reports, most of which will use as content research projects assigned in the independent student 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).
408P Images Of Aging In Literature (1). 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 people of their generation. 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.

410PW Turning Life Into Stories (4). 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 & 225 (or equivalents) and successful completion of the WEPT (effective FS93). Summer.

452 Images of the Family in Art and Literature (4). 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 the form of an independent study project. The project will further the understanding of disabilities and how various social, cultural, and political aspects of disability have been and are perceived by society. Agrarian societies and the rise of industrialism are studied. Emphasis will be placed on research and bibliographic methodology. Prerequisites: Concurrent enrollment in Interdisciplinary Studies 201P and 203P.

461 Interpreting Past and Present Rhetorical Practices (4). 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.

462 Analyzing Modern Discourse Communities (4). 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 of the social, economic and political aspects of disability as conveyed by popular culture. Students will also apply research, observation and writing skills to gain awareness and insights regarding disabilities, thus giving students an in-depth knowledge of one of the chosen projects. The project will further the understanding of disabilities and how various social, psychological and environmental conditions may affect people with disabilities and their families.

Information Technology Courses

310P Web Design & Development (3). 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.

315P Web Graphics & Multimedia (3). 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: Com Sci 105P or consent of instructor.

420P CGI Perl (3). 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; handle files and processes 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.

Integrated Studies Courses

401P The Creative Source: Concepts and Actions (4). 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.

402P Turning Points in the History of Ideas (4). 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.

403P Major Intellectual Developments in Western History (4). Major developments within the history of ideas in philosophy (and religion), the arts, political thought, and the history of science. Prerequisite: Senior standing.

425P Integrative Seminar in Disability Studies (1). 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: Humn 409P, Psych 406P and Psych 407P Offered: On Demand

430P Development Disabilities: Partners in Policymaking (8). 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. Participants meet with and learn from nationally known speakers, gaining state of the art information on critical issues, including state and federal issues. Participants develop skills that will enable them to form productive partnerships to influence police and law. Prerequisite: Selection by Missouri Planning Council Offered: TBD

Interdisciplinary Studies Courses

201P Energy, Technology and Society (4). 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 Interdisciplinary Studies 202P and 203P.

202P Energy Science (4). Weeknight course. Fundamental physical principles and concepts concerning energy sources, energy production, energy use and energy policies will be placed in the context of energy conservation, the psychology of decision making, the impact of our organizations 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 further human needs. Emphasis will be placed on research and bibliographic methodology. Prerequisites: Concurrent enrollment in Interdisciplinary Studies 201P and 202P.

203P Social, Economic and Political Influences on Energy (4). 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 Humanities 202P and 203P.

204P Work, Labor and Society (4). 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 Humanities 202P and 203P.

205P Liberalism and the Technological Society (4). 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 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 Humanities 203P is required.

206P Political and Social Aspects of a Technological Society (4). Weeknight 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 Humanities 202.

308P Introduction to Physical Anthropology (4). Study of human physical diversity and the underlying physical unity of all humans will be addressed. 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.
310P Global Political and Social Issues (4). 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, environment and international concerns appropriate to understanding a cross section of traditions and values. A variety of social strata within a designated area of study.

350P Interdisciplinary Perspectives On Aging: Readings And Film (4). This course within the PACE block provides the student an opportunity to pursue special areas of interest in gerontology which will be only partially 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.

380P People With Special Needs: Education Planning (4). 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, and students in educational settings. Offered: Fall or Winter.

381P People with Special Needs: Career Exploration (4). 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 interests 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 aids. Offered: Fall or Winter.

401P The Natural Life Cycle (4). 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 Interdisciplinary 402P and 403P.

402P Literature and Life Sciences (4). 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 Interdisciplinary 403P.

403P Stages of Growth (4). 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 Interdisciplinary 402P.

420P Brain and Behavior (4). The class will explore current and sometimes contradictory theories and evidence for the interaction of biological and psychological 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 trune 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.

482P The Meanings of Masculinity in Contemporary U.S. Culture (4). Topics include: Perspectives on Masculinity in Schools, Families, and Interpersonal Settings. College and Men, Masculinities: Privilege and Peril; Men and Work; Men and Health: Body & Mind; Men in Relationships; Male Sexuality; Men in Families; Masculinities in the Media; Men, Movements, and the Future. Small and large group discussions are an integral part of 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.

483P Artful Man Embodied: Cultural Icons of Masculinity (4). 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 even if its meaning dramatically simple being located in a different setting). Students will read and write and analyze 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.

Natural Science Courses

101P Changing Life on Earth (4). 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 NatSci 102P.

102P Fundamentals of Life Science (4). 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 Natural Sciences 103P. As needed.

103P Applications of Life Sciences (4). 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 Natural Science 102P. As needed.

308P Physical Measurements (4). 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 standards; 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 150 (or equivalent) Summer.

375P Nature of Science (4). 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.

425P Introduction to Quantitative Methods (3). 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 116.

430PC Biological And Ethical Issues In Aging (3). 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.

Philosophy Courses

401PC Biological and Ethical Issues of Aging (3). 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.

Physical Science Courses

301P Scientific Approaches to the Physical Worlds (4). 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.

303P Applications of Physical Science (4). Laboratory exercise, field experiences, tutorial-type seminars and recitation in elementary chemistry, earth science and astronomy.

Political Science Courses

347 Crime and Civil Liberties (3). 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 Fourteenth amendments. Other topics to be covered may depend on class interest and current events. PART OF PACE BLOCK–Justice and Society.

358 Global Political and Social Issues (4). 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 policy; identify future trends related to major global challenges.

406P Political Leadership (4). 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 Political Science 210 or equivalent; concurrent enrollment in Political Science 409P 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 Political Science 406A or its equivalent may not enroll in this course.

407P Politics of Representation (4). 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 Political Science 406P and Political Science 409P. Prerequisites: Social Science PACE 102P and 103P or Political Science 210 or equivalent; concurrent enrollment in Political Science 409A or equivalent.

409P Bureaucratic Politics (4). This weekend 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. Prerequisites: Social Science PACE 102P and 103P or Political Science 210 or equivalent; concurrent enrollment in Political Science 409A or equivalent.

435P Politics Of The Environment (4). 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 Political Science 435 title except additional reading and writing will be required commensurate with a 4 credit hour course.

Psychology Courses

270P Compulsive Gambling and Other Addictions (3). 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.

407P Developmental Disabilities and Community Life (4). 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.

490P Perceptions & Images of Disabilities in Literature and Film (4). 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 of 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.

Social Science Courses

101P The Social Environment (4). This is an individualized-learning course coordinated with PACE 102P and 103P, and films, newspapers and computers are used to supplement the historical and theoretical interest developed in those courses. Generally the focus of the course is on the social environment within which the individual exists. Prerequisite: Concurrent enrollment in Social Science 102P and 103P.

102P Introduction to Social Science (4). One out of three coordinated PACE courses in PACE Block I, the course emphasizes the methods of social science. It focuses on the type of questions social scientists ask and on the various ways in which they try to answer them. Prerequisite: Concurrent enrollment in Social Science 103P.

103P Dynamics of Western Civilization (Modern) (4). This is one of the coordinated PACE courses in Block I. It focuses on Western European history since 1600. Sound science theories developed in PACE 102P are applied to specific historical situations in PACE 103P. Prerequisite: Concurrent enrollment in Social Science 102P.

210P Foundations of Social Science (3). 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.

301P Varieties of People and Society (4). This course will entail an intensive study of the socio-cultural patterns in a selected nation. The discussions will focus on ethnic, racial and religious diversity in various national settings interacted with material in Soc Sci 303P. Prerequisites: Block XVI or equivalent.

302P Power and Authority (4). This weekend 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: Social Science 102 and 103 or equivalent; concurrent enrollment in Social Science 303P.

303P National Perspectives of Capitalism and Liberal Society (4). This course includes discussions of national identity, traditional social and political structures, as they relate to capitalism, capitalist ideology, as well as reactions against capitalism. The course also provides a critique of how these factors impact the nature of liberal society and alternative organizations of society which may result. PrerequisitesL Bllock XVI or equivalent.

305P Economic Principles and Applications of Accounting (1). 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 weekend course, with Accounting 201 being taught during the other three hours. It should be taken concurrently with Accounting 201 and with the Independent Study course, Social Science 403P, Business Administration Applications. On a two-year rotation.

355P The Environmental Movement: Roots and Actions (4). 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 these 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.

359P Technology Policies in Hospitality (4). 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.

364PW Contemporary Industrial Society (3). 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, 202 and successful completion of WEPT Test. Offered: Fall.

375P Contemporary Issues in the Service Industry (4). 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.

395B The Economics Of The Law (1). See ECON 395B. Prerequisites: ECON 201 and ECON 202. Offered: Fall.


395G Economics Of Poverty (1). See ECON 395G. Offered: Fall.

397A The Economics Of Public Process I (1). This film/tape course and Economics 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.

397B The Economics Of Public Process II (1). This film/tape course and Economics 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.

403P Industrial Organization Applications (4). 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.

411P Aging In American Society: Past And Present (4). 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.

438P Labor History & Economic Policy (3). Analysis of the confluence of political and economic behavior the economics of collective action. Prerequisites: Economic 301 and 302. On request. Prerequisites: Econ 201 and Econ 202. Offered: Summer.

456P In-Depth Country Study (4). Students enrolled in this section will choose a country in Latin America (not their country of origin, if applicable) and prepare a country study. Students will receive a general reading list (which has to be incorporated) and, if desired, suggestions about country-specific readings. The studies should be founded in cultural anthropology: i.e., they should be holistic in integrating all population groups of the country, and they should be integrated in treating the country as an inter-connected, but open, system.

457P First Nations and Survival in Latin America (4). This course examines the history of Native Americans in Central and South America, the colonial centuries, and contemporary issues (such as genocide, land scarcity, economic and political marginalization, and independence movements). The course focuses on Latin American history and experience as it is constructed by and impacts on Native Americans. Special consideration is given to Native women, gender constructs in Native societies and the impact of a dominant European patriarchy.

458P Women, Men and Development in Latin America (4). Students will explore two main areas of scientific discourse in Latin America: theories of development and marginalization, and feminist interpretations 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.

465P Human Resources in the Service Industry (4). 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.

489P Internship in Hospitality Studies (4). 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: Any Semester.


Sociology Courses

307P Controversial Issues from an Anthropological Perspective (4). This is an independent readings course which will analyze, from an anthropological perspective, several current issues of critical importance. These issues include the roles of women and men in society, the issues of racism and elitism, the concept of science and its relationship to the study of origins, and the uses and misuses of research data.

308P Introduction to Physical Anthropology (4). 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.

309P Cultures of the Past and Present (4). Combining archaeological and sociocultural techniques, data and theories, this course introduces the variety of human cultural adaptations to varying environments from prehistory to today. The course consists of a medley of workshops, providing students with an in-depth orientation of the major topics in archaeology and cultural anthropology. Prerequisite(s): None

381P Everyday Masculinities (4). 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.
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 also can 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.

**Departmental Activities**

**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 Department of Philosophy during the academic year. In addition, such organizations 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**

**Degree Requirements**

Philosophy majors are required to complete 30 credit hours of philosophy coursework. Philosophy 210, 222, 310WI, 320WI and 321 are required. No more than 9 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 Philosophy 423: Symbolic Logic, and to develop reading knowledge of a foreign language. In most cases, it would be best to know German or French.

**Requirements for the Minor**

Philosophy minors are required to complete a total of 18 credit hours including Philosophy 210 or 222 (3 hours), Philosophy 310WI and 320WI (6 hours), and any 300- or 400-level philosophy courses (9 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.

**Philosophy Courses**

**H490 Special Topics and Readings (1-3)**

Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies. Prerequisite: Philosophy 222, 310, 320, 321 or 423.

**210 Foundations of Philosophy (3)**

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.

**222 Foundations of Logic and Scientific Method (3)**

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.

**310WI Ancient Philosophy (3)**

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: Philosophy 210, 222 or an equivalent and successful completion of the WEPT Offered: Fall.

**315 Logic and Methodology in the Health and Social Sciences (3)**

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: Philosophy 210, 222.

**320WI Descartes to Hume (3)**

A survey of the central figures of modern philosophy: Rene Descartes, Baruch Spinoza, Gottfried Liebniz, Thomas Hobbes, John Locke, George Berkeley, David Hume and Immanuel Kant. In addition to the philosophical issues of the period, cultural, historical and political matters are considered. A secondary goal is the establishment of the pedigree of contemporary philosophical problems. Prerequisites: Philosophy 210, or 222 or an equivalent and successful completion of the WEPT Offered: Winter.

**321 Introductory Ethics (3)**

Attention is given to the nature of ethical ideas and the development and history of ethical theory. No prerequisites.

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**Department of Philosophy**

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

**Mailing Address**

University of Missouri-Kansas City
Department of Philosophy
CH 222
5100 Rockhill Road
Kansas City, MO 64110-2499

**Department Chair:**

Henry Frankel

**Professors Emeriti:***

Solomon E. Levy, Hans W. Uffelmann (School of Medicine and Philosophy Department), Edward Walter

**Professors:**

Bruce Babacz (Curators’ Distinguished Teaching Professor; School of Law and Philosophy Department), Henry R. Frankel, George D. Gale Jr.

**Associate Professor:**

Wayne Vaught (School of Medicine and Philosophy Department)

**Assistant Professors:**

James Sheppard (Philosophy Department and Affiliated Faculty Member: Department of Architecture, Urban Planning, and Design), Clancy Martin

**Undergraduate Adviser:**

Wayne Vaught
325 Aesthetics (3). 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: Philosophy 210, 222, or equivalent.

326 Epistemology: Theories of Knowledge (3). A study of the problems connected with the nature of knowledge and human understanding. Prerequisite: Philosophy 210, 222 or an equivalent.

327 Metaphysics: Theories of Reality (3). An investigation of the essential problems regarding the nature of reality in its most general aspects. Prerequisite: Philosophy 210, 222 or an equivalent.

328 Philosophy in the Middle Ages (3). 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: Philosophy 210, 222 or an equivalent.

329 American Philosophy (3). The main trends of American thought are covered, with special emphasis on the philosophies of Peirce, James and Dewey. Prerequisite: Philosophy 210 or 215 or 222 or an equivalent.

330 19th-Century Philosophy (3). 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: Philosophy 210 or 215 or 222 or an equivalent.

331 Philosophy of Religion (3). 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.

332 Existentialism (3). 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, science, and medicine. Prerequisites: Philosophy 210, 222 or equivalent.

334 Philosophy of Science (3). 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: Philosophy 222.

335 Philosophy of Mind (3). 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," "sensation," "perception," "stimulus," etc., and their relation to action and behavior are considered. Prerequisite: Philosophy 210, 222 or an equivalent.

336 Philosophy of Language (3). A study of the nature and uses of language, with special reference to the construction of meaning, denotation, reference, syntax, name, metaphor, vagueness, and definition. Applications in the fields of psychology, linguistics, anthropology, and literary criticism are examined. Prerequisite: Philosophy 210, 222 or an equivalent.

337 Philosophy of History (3). 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: Philosophy 210, 215, 222 or an equivalent.

338 Philosophy of Biology (3). 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: Philosophy 210, 222, or an equivalent.

340 Philosophy of Law (3). 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: PHIL 210, 222 or an equivalent.

350 Case Studies in the Methodologies of Science (3). Topics in the methodology of science are considered through an examination of case studies in the history of science. Prerequisite: Philosophy 210, 222 or an equivalent.

360 Current Issues in Bioethics (3). 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.

370 Environmental Ethics and Policy (3). 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

400 Interdisciplinary Studies: Cluster Course Offerings (3).

400CJ Cluster Course: Aesthetic Issues in the Arts (3). 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. Prerequisite: Philosophy 222 or equivalent.

400CO Cluster Course: Issues in Death and Dying (3). 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.

401PC Biological And Ethical Issues In Aging (3). This course is designed to provide both a disciplinary and in interdisciplinary study of the biological, philosophical, and ethical foundations and principles underlying the phenomenon of aging on an individual and societal level. Various biological, 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.

423 Symbolic Logic (3). Advanced analysis of deductive procedures; sentence connectives, quantifiers, classes, and relations; the notion of formal system; introduction to axiomatics and metalinguistic proofs. No prerequisites.

424 Art, Aesthetics and Society (3). 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 values in the context of specific works of art. Special issues, policy and ethics will be discussed critically. Prerequisite: Philosophy 222 or equivalent.

425 History of Aesthetics (3). An examination of the major thinkers in the history of aesthetics, such as Plato, Aristotle, Kant, Nietzsche, Tolstoy and Current, their focus will be on their ideas bearing on the aesthetic experience or the nature of the arts. Examples of these topics are the relationships among art, knowledge and morality; the nature of originality, creativity and genius; the importance of form, content and expression of emotions; and standards of taste and the criteria of criticism. Prerequisite: Philosophy 210, 222 or an equivalent.

430 Plato (3). 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: Philosophy 210, 222 or an equivalent.

431 Aristotle (3). 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: Philosophy 210, 222 or an equivalent.

436 Kant (3). 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: Philosophy 210, 222 or an equivalent.

445 20th-Century Philosophy (3). 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: Philosophy 210 or 215 or 222.

448 Recent Ethical Theories (3). An analysis and investigation of modern and contemporary ethical theories. Among the theories considered are ethical relativism, the emotive theory, utilitarianism, neo-Kantianism, and situation ethics. Prerequisite: Philosophy 321.
450WI Ethics and Government (3). 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: Philosophy 210 or permission of the instructor. Offered: On demand.

480 Selected Topics (1-3). 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: Philosophy 210, 222 or an equivalent, depending on the topic.

490 Special Topics and Readings (1-3). Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies. Prerequisite: Philosophy 222, 310, 320, 321 or 423.
Department of Physics

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Department Chair:
David M. Wieliczka
Curators' Professor:
Wai-Yim Ching
Professors Emeriti:
Paul J. Bryant, Marvin R. Querry (Curator's), George A. Russell (President Emeritus), John R. Urani
Professors:
Y.C. Jerry Jean (Chemistry and Physics), Michael B. Kruger, Richard D. Murphy, James M. Phillips, David M. Wieliczka (Chair), Da-Ming Zhu (Graduate Director)
Associate Professors:
Fred M. Leibsle (Undergraduate Director), Jerzy M. Wrobel
Associate Professor Emeritus:
James R. Beacham, Richard C. Waring
Assistant Professors:
Keith M. Ashman (Observatory Director), Elizabeth P. Stoddard (Director, Mathematics and Physics Institute)

Department Description
The Department of Physics offers the bachelor of science and bachelor of arts degrees. These degrees can be obtained using a traditional program of study suggested for students interested in advancing to graduate school or using a program emphasizing the use of laboratory instrumentation. Additionally, the department participates in an interdepartmental major in history and philosophy of science, along with the departments of philosophy, mathematics and history. The department offers a master of science degree in physics with thesis and non-thesis options.

The Department of Physics is eligible for full participation in UMKC's Interdisciplinary Ph.D. program. Qualified students can select physics as a discipline when applying for admission or preparing their doctoral program of study. (See the School of Graduate Studies section of the graduate catalog for details about the I. Ph.D. program).

Many physics courses are offered in the late afternoon or evening to accommodate part-time students.

Undergraduate Admissions
There are no prerequisites for entering the B.S. or B.A. programs in physics. It is highly desirable that prospective students have sufficient preparation in high-school science subjects and mathematics, including algebra, geometry and trigonometry; however, any deficiencies may be removed by taking remedial and additional courses. Students should consult the undergraduate adviser for details before registration.

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 the reasoning skills and problem-solving strategies developed by physics students carry over to virtually every field of endeavor.

There are job opportunities in physics for holders of degrees at all levels. With a bachelor's 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.

Further Educational Applications
The B.S. is recommended for students interested in receiving a firm foundation for graduate study in physics or in another science discipline (i.e., astronomy, computer science, geophysics, chemistry, atmospheric science, biophysics, materials science, applied mathematics, engineering, etc.). To broaden the interdisciplinary base, it is possible to make some substitutions for major requirements. However, such substitutions must be carefully planned and approved in advance by the undergraduate adviser.

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.

Department Activities
Advising System
Students with a major in physics should seek the advice of the undergraduate adviser, at (816) 235-1604, before registration.

Tutoring
Tutoring is available free in the department. Ask your instructor for the tutoring schedule.

Bachelor of Science

B.S. Curriculum Requirements
A basic knowledge of mathematics is necessary for the study of physics. The study of mathematics should begin in the freshman year with the following required courses:

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Mathematics 210</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 220</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 250</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 345</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

Other courses can be selected from a list of approved courses approved by the Department of Physics.
Chemistry  
Chemistry 211 and 211L 5  
Chemistry 212R and 212LR 5  
Total 10  

Physics  
Physics 240 and 250 10  
Physics 310 and 311 6  
Physics 350 3  
Physics 385L and 395L 4  
Physics 410 3  
Physics 420 3  
Physics 460 and 461 6  
Physics 472 3  
Any two of the following laboratories:  
Physics 425LW 3  
Physics 445L 3  
Physics 475L 3  
Physics 480 3  
Total 42-43  

Suggested Plan of Study for B.S. in Physics  

Freshman Year  
Mathematics 210-220 8  
Chemistry 211, 211L, 212R and 212LR 10  
Physics 240 5  
Gen. Ed. Req. / Electives 9  
Total 32  

Sophomore Year  
Mathematics 250, 345 8  
Physics 250 5  
Physics 350 3  
Physics 385L 3  
Gen. Ed. Req. / Electives 13  
Total 32  

Junior Year  
Physics 310 and 311 6  
Physics 395L / Physics 420 3 (alternate years) 3  
Physics 410 / Physics 450 3 (alternate years) 3  
Physics 425LW / 413 (alternate years) 3  
Physics 445L / 475L 3 (alternate years) 3  
Gen. Ed. Req. / Electives 14  
Total 32  

Senior Year  
Physics 460 and 461 6  
Physics 480 3  
Physics 395L / Physics 420 3 (alternate years) 3  
Physics 410 / Physics 450 3 (alternate years) 3  
Physics 425LW / 413 (alternate years) 3  
Physics 445L / 475L 3 (alternate 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  
The B.A. degree with a major in physics must include:  
1. Physics for Science and Engineering (240, 250), 10 credit hours; in special cases, General Physics (210, 220), 8 credit hours;  
2. Advanced Physics Laboratory (385L-395L), 4 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.  

B.S. Degree in Physics with Instrumentation Concentration  
The B.S. in physics with instrumentation concentration is designed to prepare students as technicians who can skillfully maintain and operate various types of modern instruments widely used in the industrial and health-care sectors. Students are provided with the basic understanding of physics principles involved in designing and operating instruments, as well as hands-on experience in using several state-of-the-art instruments to complete special projects.  

Curriculum Requirements for B.S. in Physics with Instrumentation Concentration  
In addition to the following list of requirements, also see the section Additional Curriculum Requirements for B.S. in Physics with Instrumentation Concentration.  

A basic knowledge of mathematics is necessary for the study of instrumental physics. The study of mathematics should begin in the freshman year with the following required courses:  

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 210</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 220</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 250</td>
<td>4</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

Some basic knowledge in chemistry is essential to instrumental physics. The study of introductory chemistry should be concurrent with that of mathematics in the freshman year. The required chemistry courses are:  

<table>
<thead>
<tr>
<th>Chemistry</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 211 and 211L</td>
<td>5</td>
</tr>
<tr>
<td>Chemistry 212R and 212LR</td>
<td>5</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>10</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physics</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 240 and 250</td>
<td>10</td>
</tr>
<tr>
<td>Physics 340</td>
<td>3</td>
</tr>
<tr>
<td>Physics 341</td>
<td>3</td>
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<tr>
<td>Physics 475L</td>
<td>2</td>
</tr>
<tr>
<td>Physics 490 or internship*</td>
<td>3</td>
</tr>
<tr>
<td>Any four of the following courses:</td>
<td></td>
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<tr>
<td>Physics 310</td>
<td>3</td>
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<tr>
<td>Physics 311</td>
<td>3</td>
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<tr>
<td>Physics 350</td>
<td>3</td>
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<tr>
<td>Physics 410</td>
<td>3</td>
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<tr>
<td>Physics 420</td>
<td>3</td>
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<tr>
<td>Physics 460</td>
<td>3</td>
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<tr>
<td>Physics 461</td>
<td>3</td>
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<tr>
<td>Physics 472</td>
<td>3</td>
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<tr>
<td>Any two of the following lab courses:</td>
<td></td>
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<tr>
<td>Physics 385L</td>
<td>3</td>
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<tr>
<td>Physics 445L</td>
<td>3</td>
</tr>
<tr>
<td>Physics 425LW</td>
<td>3</td>
</tr>
<tr>
<td>Physics 480</td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>37-39</strong></td>
</tr>
</tbody>
</table>

Any two of the following interdisciplinary courses:  

<table>
<thead>
<tr>
<th>Interdisciplinary</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Engineering 316</td>
<td>3</td>
</tr>
<tr>
<td>Electrical Engineering 380</td>
<td>3</td>
</tr>
<tr>
<td>Electrical Engineering 480</td>
<td>3</td>
</tr>
<tr>
<td>Electrical Engineering 482</td>
<td>3</td>
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<tr>
<td>Computer Science 311</td>
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<tr>
<td>Computer Science 411</td>
<td>3</td>
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<tr>
<td>Mechanical Engineering 130</td>
<td>3</td>
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<td>Mechanical Engineering 456</td>
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<tr>
<td><strong>Subtotal</strong></td>
<td><strong>6-7</strong></td>
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</tbody>
</table>

**Total** 67-69
Additional Curriculum Requirements for B.S. in Physics with Instrumentation Concentration

In addition to the above requirements, any other requirements for the B.S. degree in the College of Art and Sciences must be satisfied.

* Students who intend to obtain the B.S. in physics with the instrumentation concentration have to take one semester of Physics 490 (Special Problems) for 3 credit hours, conducting a small research project involving instrumentation in one of the research laboratories in the department, or work as interns in a company that has been approved by the department. The research laboratories that students can choose are not limited to those involved in the courses Instrumentation Physics I and II (Physics 340 and 341). With mutual agreement, students also can choose laboratories in other departments (e.g., chemistry, geosciences or biological sciences) for Physics 490.

The 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.

Physics Courses

102 Introduction to Physics (3). 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.

140 How Things Work (3). 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.

150 Introduction to Astronomy (3). 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 dwarfs, 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. Offered: Every Winter.

210 General Physics I (4). 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.

220 General Physics II (4). 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.

240 Physics for Science and Engineering I (5). Introduction to mechanics, wave motion and sound and heat and thermodynamics. Prerequisite: Calculus I or consent of instructor. Four hours lecture and two hours laboratory per week. Offered: Fall and Winter.

250 Physics for Science and Engineering II (5). 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.

260 Introduction to Stellar Astronomy (3). An introduction to such topics as the properties of stars, their evolution, galaxies, nebulae, quasars and cosmology. Offered: On Demand.

265L Astronomy Laboratory (2). 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.

270 Introduction to Solar System Astronomy (3). A non-mathematical introduction to the astronomy of the solar system including the properties of the sun, planets and their satellites. Offered: On Demand.

280 A Survey of Astronomy (4). 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.

301A Basic Science Physics (1). Selected topics from physics; their development and application to everyday problems. Discussion and demonstrations. Intended for teachers in the elementary schools. Offered: On Demand.

310 Mechanics I (3). Advanced statics and dynamics of particles and rigid bodies including gravitation. Prerequisites: One year of physics and calculus or consent of instructor. Offered: Fall.

311 Mechanics II (3). Continuation of Mechanics I, including mechanics of continuous media, Lagranges equations, tensor algebra and theory of small vibrations. Prerequisite: Mechanics I or consent of instructor. Offered: Winter.

340 Instrumentation Physics I (3). Fundamental principles and application of Raman and X-ray photoemission spectroscopies. The course will focus on physics involved in designing and operating the equipment used for Raman and X-ray photoemission spectroscopy, and will include techniques such as computer software and interfacing, ultra-high vacuum, high sensitivity photon detection, and ultra-high-pressure apparatus. Prerequisite: PHYS 240 and 250. Offered: Alternate Years Fall.

341 Instrumentation Physics II (3). Fundamental principles and application of photoluminescence and scanning probe microscopies. The course will focus on physics involved in designing and operating the equipment used for photoluminescence spectroscopy and scanning probe spectroscopy, and will include techniques such as precision machining, low temperature techniques, imaging processing and specialized electronics. Prerequisite: PHYS 240 and 250. Offered: Alternate Years Winter.

350 Modern Physics with Engineering Applications (3). 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 240-250. Offered: Winter Semester.

360 Physical Electronics (3). A study of electron ballistics and electronic emission and conduction in vacuum tubes and in solid state devices. Prerequisites: One year of physics and calculus. Offered: On Demand.

365L Electronic Measurements (2). Four hours of laboratory work per week. Prerequisite: Physics 360 or consent of the instructor. Offered: On Demand.

380 Modern Developments in Physics I (4).

381 Modern Developments in Physics II (4).

385L Elementary Circuits Laboratory (3). 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. Offered: Winter Alternate Years.

395L Computer Interfacing Laboratory (3). 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 Alternate Years.

410 Thermal Physics (3). 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: Alternate Years Fall.

413 Computational Physics (3). 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: Alternate Years Winter.

420 Optics (3). Geometrical optics, physical optics and introduction to selected topics in modern optics. Prerequisites: One year of physics and Calculus I and II. Offered: Alternate Years Fall.

425LW Optics Laboratory (3). Fundamental experiments with geometrical and physical optics. Prerequisite: Must be taking or have completed Physics 420 and successful completion of the WEPT (effective FS93). Offered: Winter Alternate Years.

430R Methods Of Theoretical Physics I (3). 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 345. Offered: On Demand.

431 Methods Of Theoretical Physics II (3). A continuation of Physics 430R stressing applications to Physical and engineering problems. Prerequisite(s) 430R Offered: Winter
445L Modern Physics Laboratory (3). 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. Corequisite: Physics 350. Offered: Alternate Years Winter.

450 Introduction to Solid State Physics (3). 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: Alternate Years Fall.

460 Electricity and Magnetism I (3). 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.

461 Electricity and Magnetism II (3). Magnetostatics; alternating current circuits; Maxwell’s equations and radiation; special relativity; topics in electromagnetism. Prerequisite: Physics 460 or consent of instructor. Offered: Winter.

472 Introduction to Quantum Mechanics (3). 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.

475L Nuclear Physics Laboratories (3). Experiments concerning the properties of alpha, beta and gamma radiation, their emission and interactions with matter. Four hours of laboratory work per week. Offered: Alternate Years Winter.

480 Electron Microscopy I (3). 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. Prerequisite: Consent of instructor. Offered: Fall.

481 Electron Microscopy II (3). Graduate student research applications of electron microscopy to special projects are emphasized. Prerequisite: Physics 480. Offered: On Demand.

482 X-ray Analysis: Theory and Practice (3). 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.

490 Special Problems (1-3). 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.

H260 Introduction to Stellar Astronomy - Honors (3).

H270 Introduction to Solar System Astronomy-Honors (3).
Department of Political Science

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Kansas City, MO 64110-2499

Department Chair:
Harris G. Mirkin
Emeriti Faculty:
G. Ross Stephens, Ben L. Martin, Dale A. Neuman
Curators’ Professors:
David N. Atkinson (pre-law adviser), Max J. Skidmore (principal doctoral adviser)
Professor:
Robert E. Gamer
Associate Professors:
Robert K. Evanson (principal master’s adviser), Harris G. Mirkin
Assistant Professors:
Martha Kropf
Visiting and Adjunct Professors, Full-time Lecturers:
Mohammed Hafez, Robert Wolff, Reginald L. Bassa Jr.
(director, Program for Adult College Education)

Department Description
The Department of Political Science offers courses leading to the degrees of bachelor of arts and master of arts, and participates in the Interdisciplinary Ph.D. program.

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
Political science, in addition to serving as an excellent core discipline for a liberal arts education, also may 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 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.

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.
Bachelor of Arts: Political Science

Degree Requirements

The department requirement for a major is 30 hours of political science. There are some specific course requirements. Students must take Political Science 210 (American Government), 220 (Comparative Politics) and either Political Science 302 (Political Research and Analysis) or Political Science 305 (Survey Research and Analysis). In addition, 490 or 492WI (Senior Seminar) is required. At least 24 hours of political science coursework (including 490 or 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 grade-point average 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 210 and 220 should be taken as early in the student’s program as possible and 302 or 305 as soon as the course of study allows. Because there are optional ways for students to meet the remainder of the requirements for the major, students should, through consultation with a department faculty adviser, develop an approved program of study that best suits their educational goals.

Political science majors are also required to take at least one 300-400 level course in at least four of the following seven subfields:

- Political Theory (301, 341, 342, 344, 345, 403, 440, 441);
- Public Law (348, 349, 405, 429);
- Comparative Politics (304, 311, 317, 353, 354, 355, 357, 425, 428);
- International Relations (306, 336);
- American State and Local Politics (313, 438);
- Study Abroad Programs, Experiential Courses, and Internships (491, and other courses specifically approved by the undergraduate adviser).

Note: Courses 497 and 498 will only satisfy a subfield requirement if specifically approved by the undergraduate adviser.

Program Minor

A minor in political science may be obtained by the successful completion of 18 semester hours of coursework within the discipline (at least 12 of which must be at the 300- to 400-level and at least nine of which must be earned at UMKC).

Political Science Courses

210 American Government (3). 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.

220 Introduction To Comparative Politics (3). 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.

300 Interdisciplinary Studies: Cluster Course (3). Provides an overview of the interrelationships of the humanities and social sciences. Offered in conjunction with other departments.

300CS Cluster Course: History of Russian Culture (3).

301 Western Political Philosophy (3). An examination of the major theories of politics from Plato to today.

302 Political Research and Analysis (3). 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.

304 Politics of The Developing Nations (3). 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.

305 Survey Research and Analysis (3). 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

306 International Relations (3). An analysis of relations among nations, with emphasis on structures of international power, causes of war, and approaches to peace.

307 The United Nations: Politics and Economics (3). 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

309 Public Opinion and Voting Behavior (3). A study of the formation, distribution and expression of public opinion and partisanship in the American political system.

311 Comparative Politics: Techniques of Social Control (3). 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.

312 Mass Media and American Politics (3). An examination of the role of mass media in American electoral and policy processes.

313 Politics In The American States (3). 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.

315 Public Policy (3). A broad introductory overview of decision theories, governmental structures, and policy processes. Emphasis on the organizational and societal context of public formulation, implementation, and evaluation. Prerequisite: None.

317 Revolutionary Origins of the Modern State (3). 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.

336 American Foreign Policy (3). Understanding the contemporary debate over American foreign policy in terms of the premises and perspectives of several competing schools of thought.

341 The Theory of Democracy (3). Analysis of the writings of philosophers like Hobbes, Locke, Rousseau, Marx and Nietzsche who developed and analyzed the ideas associated with modern democracies.

342 American Political Thought (3). A study of American political ideas, with emphasis on current problems and conflicts, and intellectual responses to social change.

343 The Politics of Social Security (3). A study of the American Social Security system, including its history, principles, and prospects for the future.

344 Jurisprudence (3). An examination of theories of law from the viewpoint of political science.

345 The Politics of Sex and Gender (3). 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.


349 Constitutional Law: Civil Liberties (3). A study of civil liberties in American society, emphasizing factors and forces that restrict or enlarge their scope, as understood through constitutional interpretation.

353 Chinese Politics (3). 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.
345 Politics in Russia (3). A study of domestic and international politics in Russia, emphasizing the post-Soviet period.

355 Politics in Eastern and Central Europe (3). 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.

387 Political Philosophy (3). 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 1997.

370 Labor Law (3). 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.

380 Political Science and Politics (1-6). 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.

393 Political Ideology (3). A critical examination of contemporary political ideologies including democratic and authoritarian theories.

405 American Constitutional Thought (3). 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.

406 Presidential Politics (3). 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.

407 Congressional Politics (3). A study of legislative institutions, procedures and behavior (with emphasis on the U.S. Congress) in the context of theories of political representation.

408 Judicial Politics (3). An examination of the judiciary in the American political process, emphasizing the role of judges, lawyers and the Supreme Court.

409 Bureaucratic Politics (3). 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.

409P Bureaucratic Politics (4). This weekend 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.

425 Comparative Politics (3). Aspects of politics in various countries as viewed through the language and thought processes of contemporary approaches to political science.

428 Political Culture and Political Behavior (3). 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.

429 Courts and Public Policy (3). An analysis of how courts influence policy in selected political arenas.

435 Politics Of The Environment (3). 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.

435P Politics Of The Environment (4).

438 Urban Politics (3). 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.

440 Contemporary Political Thought (3). Political philosophy from Nietzsche to today.

441 Political Freedom (3). 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.

442 American Political Thought (3). 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.

450WI Ethics And Government (3). 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.

451 International Politics in Europe (3). 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”

480 Government and Politics (1-6). 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.

490 Senior Seminar (3). 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.

491 Internship (1-6). 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.

492WI Senior Seminar (Capstone) (3). 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 1997.

497 Political Science Tutorial (3). 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.

498 Honors Tutorial (1-3). 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.
Pre-Law Program

23 Scofield Hall
711 E. 51st Street
(816) 235-6094
http://www.umkc.edu/pre-law

Mailing Address
University of Missouri-Kansas City
Pre-Law Program
SH 23
5100 Rockhill Road
Kansas City, MO 64110-2499

Program Coordinator:
John Szmer, JD
szmerj@umkc.edu

The UMKC pre-law program is designed to help students
make wise decisions about becoming a lawyer. It is not a
major. There is no one major that best prepares a student for
law school, and UMKC is proud to have pre-law students
exploring political science, English literature, history,
philosophy, communication studies, economics, and
psychology, among other majors. The ultimate pre-law
curriculum emphasizes the development of the skills that are
necessary to achieve the following goals:

- Acceptance to the best possible law school for the student;
- Academic success in law school;
- Success as a lawyer or a non-practitioner in a legally
related field.

To attain these goals, pre-law students 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. The pre-law program also provides
information and advice to enable the undergraduate student to
make wise choices regarding various issues, including:

- Do you really want to become a lawyer?
- What law schools should you apply to?
- 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?
- 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?

The program is a special package of benefits students can
participate in regardless of major. These benefits include:

- Academic advising by a special team of pre-law advisers
  (the team includes two lawyers);
- Law school and career counseling;
- Pre-law chapter of Phi Alpha Delta International, one of
  the world’s largest legal societies;
- The pre-law section of the A&S 100 seminar, taught by a
  lawyer, is open to incoming first-year students every fall;
- The UMKC Collegiate Mock Trial team;
- Workshops and advising on law school applications and
  personal statements;
- Preparation program for the Law School Admissions Test,
  “Ready, Set, LSAT,” offered in conjunction with the
  Institute for Professional Preparation; or information
  regarding private LSAT preparation programs;
- Mentoring, shadowing and internship opportunities with
  area attorneys, and government agencies (e.g., Jackson
  County Prosecutor’s Office, Western Missouri Legal Aid);
- Arranging shadowing opportunities with law schools
  being considered by students.

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 Web site. 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.

Why Join the Mock Trial Team?

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 lawyering:
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
(e.g., excellent oral communication skills; the ability to quickly
develop and articulate a logical, persuasive argument; and an
understanding of the rules of evidence). This is particularly
important, given that the traditional law school curriculum
emphasizes writing skills over oral communication skills.

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. Otherwise, at the present time, there are no other
official requirements. However, there is a class offered at
UMKC, Arts & Sciences 280, that is geared toward teaching
potential members of the Mock Trial program. Consent of the
instructor is required for this course. Students interested in
becoming members of the program should contact the coach,
John Szmer (phone: (816) 235-6094 or e-mail:
szmerj@umkc.edu).

UMKC Early-Entry Law Program (90+
Program)

What is the 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.
How does the 90+ Program work?
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 and major 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).

Who may participate in the 90+ Program?
Any student who is pursuing a degree in the College of Arts and Sciences may participate. The most popular are the Bachelor of Liberal Arts (B.L.A.) and the Bachelor of Arts in political science. Note, however, that the 90+ program does not guarantee admission into UMKC’s School of Law. Participants must apply and otherwise qualify for law school admission.

What do you need to do to complete the 90+ program?
Current UMKC students should meet every semester with a pre-law adviser. Community college transfer students should consult with a UMKC pre-law adviser one full year before transferring to UMKC. 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. The following checklist should help students get started:

- The final 30 hours prior to enrolling in the UMKC School of Law must be from courses in UMKC’s College of Arts and Sciences.
- All general education requirements must be completed prior to enrolling in the UMKC School of Law.
- For non-B.L.A. students, all major requirements must be completed prior to enrolling.
- The 36 hours of junior/senior (300/400-level) coursework must be completed prior to enrolling in the UMKC School of Law.
- By the Fall Semester before students plan on starting law school (roughly after earning approximately 60-75 credit hours), they should apply for graduation in the Arts and Sciences Advising Office. Students should note on the application for graduation that they are early-entry law (or 90+) candidates. As part of the graduation process, the student must schedule an audit with the pre-law coordinator. The audit should be completed by the end of the Fall semester prior to starting law school.
- After applying for graduation and completing the audit, the student must contact the pre-law coordinator to arrange to have a letter sent to the UMKC School of Law stating that there is a plan in place that will allow the student to complete all of the general education and major requirements prior to enrolling in the law school the following fall. The coordinator 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 completed and delivered the required parts of the application to the law school (this includes letters of recommendation, a personal statement, as well as a report from the Law School Data Assembly Service containing all relevant transcript information and a valid LSAT score). This process should be completed prior to January 1 of the year in which the student intends to enroll in the UMKC School of Law.

Concentration in Pre-Law
Students interested in law school and/or the legal profession should consider taking classes from the following list. The classes are separated into two groups:

- Those that deal with the substance of the law, and
- Those that focus on the development of some of the underlying skills that lawyers need (e.g., critical thought, excellent written and oral communication skills).

While the pre-law concentration is not required for students applying to law school, the classes listed below help students develop the skills that should help them succeed in law school and in the profession. This list of classes is by no means comprehensive. Many different classes at UMKC touch on the law, and almost all of the classes develop to some degree one or more of the skills previously listed. However, the classes below were selected because they primarily focus on either the substance of the law or one of the underlying skills listed above. Students should design their own pre-law concentration curriculum, with the advice of the pre-law coordinator.

Students may also take classes as part of the concentration that are not listed below if they can justify why the class will help prepare them for law school and a legal career. For example, students interested in practicing environmental law might want to take environmental studies-related classes. Similarly, future patent lawyers might consider taking chemistry, physics, and/or mathematics classes.

Suggested Pre-Law Concentration Classes
Students interested in attending law school should take care to insure that they do not take too many classes in any one subject area. As such, students interested in the concentration should take a minimum of 18 credit hours from at least 3 different departments. They should also make a concerted effort to complete a minimum of 6 credits from both the substantive legal classes and legal skills groups.

1. Substantive Legal Classes (complete 6 credits minimum):
- Communication Studies 478 (Communication Law);
- Criminal Justice 320 (The Supreme Court and the Criminal Process), 353 (Legal Aspects of Policing), 435 (Gender and Law);
- Economics 416 (Law and Economics);
- Geography 410 (Landscape, Language, Literature, and Law);
- History 360R (Constitutional History of the United States);
- Philosophy 340 (Philosophy of Law);
- Political Science 344 (Jurisprudence), 347 (Crime and Civil Liberties), 348 (Constitutional Law: The Federal System), 349 (Constitutional Law: Civil Liberties), 370 (Labor Law), 405 (American Constitutional Thought), or 408 (Judicial Politics);
- Sociology 470 (Colloquium: Law and Social Structure).

2. Legal Skills Classes (complete 6 credits minimum):
- A&S 280 (Mock Trial);
- Communication Studies 212 (Argumentation and Debate), 213 (Argumentation and Critical Thought), 317 (Persuasion);
- English 305WI (Theory and Practice of Composition), 306WI (Advanced Composition);
- Philosophy 222 (Foundations of Logic and the Scientific Method), 336 (Philosophy of Language), 423 (Symbolic Logic);
- Theater 101 (Introduction to Acting).

Interested students should contact the pre-law coordinator for more information.
Department of Psychology

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Leah K. Gensheimer
Kathleen J. Goggin (Director Master’s Program)
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Joseph Hughey (Discipline Coordinator Psychology, Interdisciplinary Ph.D.)
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Diane L. Filion (Department Chair and Director of Undergraduate Program)
Linda Garavalia
Joseph Hughey (Discipline Coordinator Psychology, Interdisciplinary Ph.D.)
Kathleen J. Goggin (Director Master’s Program)

Department Description
The Department of Psychology is focused on behavioral science contributions to health and health care. 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 Lukes Hospital, The Cancer Institute, Mid America Heart Institute, the Kansas City Free 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 offered by the department which led to the master of arts and the doctor of philosophy degrees.

Psychology participates in the Interdisciplinary Ph.D. program of the School of Graduate Studies with two disciplines, psychology and health psychology. See the School of Graduate Studies section in the graduate catalog for more information about doctoral programs in the IPh.D. program.

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 health care;
- 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 (master’s, specialist, doctorate). Students who want to pursue a career in psychology are advised to prepare for graduate study. The psychology major at UMKC offers a solid educational foundation for students who plan to work toward advanced degrees in the field.

Department Activities

Honor Society
The department has a chapter of Psi Chi, the national honor society in psychology. Each year Psi Chi presents a variety of educational and social programs. Membership is open to students at both undergraduate and graduate levels. Regular meetings are held throughout the academic year. Interested students should contact Dr. Diane Filion, program adviser, at (816) 235-1061.

Advising System
Psychology advisers are available to students for advisement, declaration of major and degree checks. The adviser solves special problems and is the central records source. The adviser holds office hours during the semester and is available by appointment. Department faculty are also available to students for academic advisement.

Bachelor of Arts: Psychology

Director:
Diane L. Filion

Program Description
The undergraduate 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.

Requirements
Majors are required to complete a minimum of 28 hours of coursework in psychology. Required courses are:

- PSYCH 210 (General Psychology);
- PSYCH 316 (Quantitative Methods in Psychology);
- PSYCH 302WI (Experimental Psychology); and
- PSYCH 415 (History and Systems of Psychology).
The remaining hours usually comprise a minimum of five elective courses which should be taken from the psychology department with the following constraints. One elective course must be either:

- PSYCH 312 (Social Psychology), or
- PSYCH 322 (Child Psychology).

The second elective must be either:

- PSYCH 323 (Theory and Methods of Personality), or
- PSYCH 433 (Abnormal Psychology).

The third elective must be:

- PSYCH 304 (Learning);
- PSYCH 308 (Sensation and Perception);
- PSYCH 405 (Motivation); or
- PSYCH 418 (Biopsychology).

Finally, a minimum of two additional elective courses in psychology must be taken. The only exception will be for students double-majoring in Music Therapy and Psychology. In these cases:

- CONS 260 (Clinical Foundations of Music Therapy); or
- CONS 435 (Psychological Foundations of Music)

fill the science emphasis area (PSYCH 304, 308, 418).

Equivalent courses from other institutions may be acceptable substitutes. Courses in educational psychology or mental hygiene may not be applied to the required hours in the major. A minimum of 22 hours must be in upper-division courses (300- and 400-level) and a minimum of 12 hours must be taken in psychology at UMKC. A minimum course grade of “C” must be achieved to have any course apply toward the major in psychology.

**Suggested Plan of Study**

Before beginning a psychology major or minor, students should meet with the department’s undergraduate 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 they can and delay PSYCH 415 until 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 supervise their work. Together, they will discuss the possibility of doing research in an area of mutual interest. PSYCH 490 is taken with a full-time faculty member. Prior permission of a faculty sponsor is required before registering for the course.

Students interested in obtaining applied experience in a community setting may take PSYCH 461A.

**Psychology Minor/Double Major**

A minor in psychology requires 18 hours in psychology with at least 12 of these hours at the upper-division level. PSYCH 210, 316, 302WI and 415 are required of all psychology minors.

Conservatory of Music 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 6 hours of courses taken in the Conservatory toward the psychology major. These would be chosen from Conservatory 260 and 453.

**Psychology Courses**

**H308 Sensation and Perception (3).** An account of the ways in which the normal human adult registers and apprehends the environment. The experimental study of psychophysical correlation of space, motion, objects and events, and the relations of perceiving to everyday behaving and thinking. May not be taken for graduate credit. Prerequisite(s): Psychology 210.

**210 General Psychology (3).** Psychological principles and methods. Prerequisite to all other courses in psychology except with consent of the instructor. Each semester.

**211P Applied Psychology (3).** 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.

**215 Meditation, Self-Hypnosis, and Biofeedback (3).** This course provides a relatively non-technical 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.

**270P Compulsive Gambling and Other Addictions (3).** 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.

**300 Industrial Psychology (3).** 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: Psychology 210.

**300CS Interdisciplinary Studies: Special Topics (3).** 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: Psychology 210.

**300CT Cluster Course: Healing and Cultural Diversity (3).**

**302WI Experimental Psychology (4).** 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; Psychology 316 must be completed prior to or concurrently with this course. Offered: Each semester.

**303WI Psychological Writing (3).** 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.

**304 Learning (4).** The fundamental conditions and principles of learning, both animal and human. A review of selected experimental literature with special emphasis upon recent developments in the field. Three hours lecture and two hours laboratory a week. Prerequisites: Psychology 210, 302 and 316 or consent of instructor.

**305 Psychology of Women (3).** 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: Psychology 210.

**308 Sensation and Perception (3).** An account of the ways in which the normal human adult registers and apprehends the environment. The experimental study of psychophysical correlation of space, motion, objects and events, and the relations of perceiving to everyday behaving and thinking. May not be taken for graduate credit. Prerequisite(s): Psychology 210.

**310 Theories of Aggression (3).** The two major theoretical approaches related 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: Psychology 210.

**311 Applied Psychology (3).** 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): Psychology 210. Semester Offered: On demand.

**312 Social Psychology (3).** 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
Department of Psychology

differences. May not be taken for graduate credit. Prerequisite(s): Psychology 210. Offered: Each semester.

316 Quantitative Methods in Psychology (3). 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 117. Offered: Each semester.

320 Ethnic and Minority Perspectives in Psychology (3). 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: Psychology 210. On demand.

322 Child Psychology (3). 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): Psychology 210. Offered: Each semester.

322P Child Psychology (3). The relations between biological and social conditions of personality; problems concerning the role of the child in the family and concerning guidance of social adaptation of the child. PACE class to meet one night a week from 6:00-10:00 p.m. and one weekend. Fri E6:00-10:00, Sat 8:00-5:00. Sun 1:00-5:30 for eight weeks in either fall or winter semester. Part of PACE Block-Juvenile Justice and the Family. Prerequisite: Psychology 210. Offered: Each semester.

323 Theory and Methods of Personality (3). The development, organization, dynamics and determinants of personality. May not be taken for graduate credit. Prerequisite: Psychology 210. Offered: Each semester.

326 Alternate Sexual Lifestyles & Contemporary Issues Human Sexuality (3). One of the main objectives of this course is 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: Psychology 210.

328 Psychology of Human Sexual Behavior (3). 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: Psychology 210.

330 Psychology of Language (3). An introduction to the study of psycholinguistics. Topics will include psychological studies of language, animal communication, child language and psycholinguistic behavior. Prerequisite: Psychology 210.

331 An Introduction to Health Psychology (3). 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: Psychology 210.

400 Principles of Psychological Testing (3). The theory of psychological testing and measurement. Prerequisite: Psychology 316. Winter.

403 Environmental Psychology (3). 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: Psychology 210.

405 Motivation (3). 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: Psychology 316. Offered: On demand.

406P Introduction to Developmental Disabilities (4). 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.

410 Abnormal Language (3). 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.

415 History and Systems of Psychology (3). 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: 18 hours of Psychology.

418 Biopsychology I (3). An introduction to brain functions including neuroanatomy and neuropharmacology. Topics include research methodology in investigating brain-behavior relationships, as well as sensory (e.g. visual, auditory) and motor systems. Prerequisites: Psychology 302 and Biology course.

419 Biopsychology II (3). This course assumes that the student has mastered the basics of biopsychology, and deals with this topic in greater depth and scope. Prerequisite: Psychology 418. 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 Psychology 418 left off. There will, in particular, be an emphasis on human biopsychology. This course is primarily intended for the advanced undergraduate. Prerequisite: Psychology 418 or equivalent.

430 Introduction to Community Psychology and Community Mental Health (3). 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, contemporary 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.

433 Abnormal Psychology (3). 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): Psychology 322 or 323. Offered: Each semester.

438 Psychology and Business and Industry: Motivational Factors (3). Investigation of psychological principles in business and industry: personnel selection, attitudes, motivation, supervision, communication and others influencing work efficiency. This course requires a student project 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.

440 The Psychology of Aging (3). 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-cultural 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. Offered: Fall Semester.

441 Adult Development and Aging (3). 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.

450 Special Topics (1-3). 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.

453 Family Life Cycle: Developmental Approach Understanding Fam Dynme (4). 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.

453P Family Life Cycle: Developmental Approach Understanding Fam Dynmc (4). 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.

458 Behavior Modification (3). 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 Psychology 302 or 304.

460 Field Practicum in Behavior Modification (3). 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: Psychology 302 or 304 and 458. On demand.

461A Field Practicum (4). 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.

490 Directed Individual Research (1-6). 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 six hours may be applied toward the major in psychology and a maximum of twelve toward the bachelor’s degree. On demand.

H210 General Psychology-Honors (3).
H322 Child Psychology - Honors (3).
H433 Abnormal Psychology-Honors (3).
Religious Studies

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Mailing Address
University of Missouri-Kansas City
Center for Religious Studies
5100 Rockhill Road
Kansas City, MO 64110-2499

Program Director:
Professor Gary L. Ebersole

Description of Program
The Center for Religious Studies (http://www.umkc.edu/rel-st) 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, listed below. Related courses relevant to the study of religion will be found under the listings of other departments and programs.

Religious Studies Courses

100 Introduction to Comparative Religion (3). 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.

400 Special Topics in Religious Studies (1-3). Special topics in religious studies which are not offered regularly. The focus of the course varies by semester and instructor.

467 Myth and Ritual (3). "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.

494RS Death in History of Religion (3). 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.

495RS Time and Space in the History of Religions (3). 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.

496RS The Body in The History of Religion (3). 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 has been manipulated and worked on in an effort to transform the human situation in the world.

497RS Special Topics and Readings (1-6). 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.
Department of Sociology/Criminal Justice and Criminology

208 Haag Hall
5120 Rockhill Road
(816) 235-1116
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sociology@umkc.edu
http://www.umkc.edu/sociology

Mailing Address
University of Missouri-Kansas City
Department of Sociology/Criminal Justice and
Criminology
HH 208
5100 Rockhill Road
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Department Chair:
Linda Breitspraak

Professors Emeriti:
Oscar Eggers, Henry G. Burger, Thomas Carroll, C. Neil Bull

Professors:
Wayne Lucas (principal graduate adviser, criminal justice
and criminology), Philip G. Olson (director of urban
affairs program), Peter Singelmann

Associate Professors:
Leanne Fiftal Alarid (coordinator, criminal justice and
criminology), James Anderson, Linda M. Breitspraak
(director of Center on Aging Studies, director of graduate
program in gerontology), Cathleen Burnett (principal
undergraduate adviser), Burton Halpert, Deborah Smith
(director of family studies)

Assistant Professors:
Dana M. Collins, Douglas Cowan (principal graduate
adviser, sociology), Alexander Holsinger, Kristi
Holsinger, Shannon Jackson (coordinator, anthropology
program), Kenneth Novak, Tanya Price

Visiting Assistant Professor:
Barbara Bonnekessen (anthropology)

Lecturer:
Julie Russell (sociology)

Joint Appointment:
Greg Arling (Henry W. Bloch School of Business and
Public Administration), Louise Arnold (School of
Medicine), David W. Moller (School of Medicine)

Administrative Assistant:
Tricia Falk

Department Description
The Department of Sociology/Criminal Justice and
Criminology offers programs of study leading to the bachelor
of arts in sociology; the bachelor of arts in criminal justice
and criminology; the master of arts in sociology; and the master
of science in criminal justice and criminology. The undergraduate
major in sociology may choose an emphasis area from the
several options offered. Additionally, program minors are
available in sociology; criminal justice and criminology;
anthropology; family studies; women’s studies; and
gerontology. Sociology also is a participating discipline in
UMKC’s Interdisciplinary Ph.D. program. (See the School of
Graduate Studies section of this catalog for more information).

The mission of the department is to extend knowledge
about the nature of social life. This mission includes
continuing participation by faculty in significant

Department of Sociology/Criminal Justice and
Criminology

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criminological and sociological 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.

Career Implications
The undergraduate degrees in sociology and criminal justice
and criminology provide a general education and preparation
for entry into a variety of professional schools. Students who
major in these fields are particularly prepared for graduate
education in not only sociology and criminal justice and
criminology but also anthropology, psychology, urban studies,
public administration and other fields.

Sociology and criminal justice and criminology offer
preparation for any occupation in which a broad understanding
of social life is valuable, or in which social research skills are
used.

Undergraduate programs are designed to meet the
requirements of both those who may decide on careers in
sociology and criminal justice and criminology, and those who
find in these areas a subject matter around which to organize
their general liberal arts education. Undergraduate courses are
also of special merit to students majoring in other fields,
providing insight into the social and policy implications and
consequences of many forms of social, economic, business and
technological change.

Undergraduate majors pursue graduate training in
sociology or criminal justice and criminology in preparation
for academic and practice careers. A master’s degree or
doctorate is essential for teaching, advanced research or
applied careers. Others choose graduate work in other fields:
social work, education, public health, business administration,
urban planning, law and medicine.

To the fullest extent possible, programs of study will be
formulated to suit the student’s academic goals. It is
recognized that those goals may change during the several
years of academic work.

Department Activities
Academic Advising
Student academic advising is a continuous process in the
department. The principal undergraduate and graduate 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
couraged, and graduate students are required, to consult with
the department to establish a tentative plan of study. Students
should leave their mailing addresses with the department so
that they can receive mailings and modifications of the class
timetable.

Special Opportunities in Gerontology
The department offers individualized study in gerontology at
the undergraduate level in consultation with members of the
Center on Aging Studies staff. The department also offers
several courses for graduate students in interdisciplinary study
with an interest in gerontology. These courses may be taken
either by degree-seeking students as a part of their programs or
by non-degree-seeking students as a continuing education
program. Students who are interested in gerontology may
develop a plan in conjunction with graduate degrees in
sociology, psychology, adult education, music education,
nursing and public administration. The Center on Aging
Studies offers a concentration in aging through its
18-credit-hour graduate gerontology certificate program.
Those who are interested should contact the Center on Aging Studies at (816) 235-1747, or Eliza Kendall, coordinator of the Gerontology Certificate Program, at (816) 235-2186.

Center on Aging Studies
5215 Rockhill
(816) 235-1747
http://www.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 graduate and undergraduate certificate programs in gerontology, fosters new course development and provides continuing education opportunities for the community and the region.

The Center on Aging Studies has built on its position in the heartland of America with emphasis on issues of aging in both urban and rural areas.

Cooperative Programs
The department cooperates with several other programs on the campus by jointly listing courses at the undergraduate level:

- American studies
- Anthropology
- Black studies
- Criminal justice and criminology
- Family studies
- Honors program
- Urban affairs
- Women’s studies

Sociology Honor Society and Criminal Justice/Criminology Club
The department has a chapter of Alpha Kappa Delta, a national honorary society for sociology. The society sponsors a sociology club and a variety of extracurricular activities for student sociologists.

Special 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 or criminal justice and criminology 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.

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. In addition, a small number of graduate students may receive financial assistance through teaching and research assistantships offered by the department. These assistantships offer an important opportunity for students to develop their professional skills through teaching or research.

Sociology Program

Bachelor of Arts: 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. As a part of the regular coursework in sociology, students must become proficient in computer use. 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.

Field Experience, Directed Individual Study or Research
Several courses at the 300 and 400 level are set aside for individual study either as readings courses or as research courses. Readings course SOC 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, SOC 398, has variable credit from 1 to 6 credit hours, and individual contracts are made with faculty prior to a student selecting the course. The department also offers practicum courses, which can require considerable work outside the classroom, often in an agency setting. These courses are SOC 390R and 391. Students are restricted to 6 credit hours of any combination of field experience, directed individual study and research toward the 27 hours required in the sociology major.

B.A. Degree Requirements
The bachelor of arts degree in sociology requires a total of 27 credit hours in addition to the general requirements for a degree in the College of Arts and Sciences.

For students selecting the Sociology major, required courses are the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 101 Sociology: An Introduction</td>
<td>3</td>
</tr>
<tr>
<td>SOC 103 Intro. to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 361 Social Theory</td>
<td>3</td>
</tr>
<tr>
<td>SOC 362 Methods of Sociological Research</td>
<td>3</td>
</tr>
<tr>
<td>SOC 363* Intro. to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SOC 404WI** Sociology Capstone: Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

*MATH 235 is not a substitute for SOC 363.
**All majors are required to take a writing intensive course within the Department of Sociology/Criminal Justice and Criminology (SOC 404WI fulfills this requirement).

Other degree requirements include:

1. A 2.0 grade-point average must be attained in the 27 hours credited toward the major;
2. A minimum grade of C- must be attained in all required courses (SOC 101, 103, 361, 362, 363, and 404WI);
3. Students must complete the general degree requirements of the College of Arts and Sciences and attain a minimum GPA of 2.0;
4. No more than three 1 credit hours of Special Topics in Sociology (SOC 300R) may be used to fulfill Sociology elective requirements.
Areas of Emphasis
Majors are encouraged to choose an emphasis area as outlined below. Emphasis areas cover four major groupings of courses designed to aid the student in selecting a plan of study related to personal interests or with some relevance for careers.

Life Course
Students focus on the progress of the individual through the various stages of the life cycle. Courses: SOC 303CW, 211, 313R, 316, 410R, 411, 416 and 417.

Deviant Behavior
Students focus on the areas of deviance, social problems and collective behavior. Courses: SOC 312, 317, 320, 319, 420 and 421.

Urban Sociology
Students will focus on urban problems, change in urban settings and the application of sociology to urban environments. Courses: SOC 320, 322, 331, 335R, 430R and 431.

Anthropology
Students will focus on a cross-cultural analysis of societies. Courses: ANTH 103, 322, 331, and 346.

Program Minors
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 are required for a minor, including the required introductory course, SOC 101.

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 (ANTH 103, Introduction to Cultural Anthropology) and 15 credit hours of elective courses, which results in a total of 18 hours. Electives can be planned around an area of specialization. Students should consult with the program director to select the appropriate courses.

Criminal Justice and Criminology Program
The College of Arts and Sciences offers the bachelor of arts and master of science degrees in criminal justice and criminology (CJC), administered through the Department of Sociology/Criminal Justice and Criminology. 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.

Bachelor of Arts: Criminal Justice and Criminology

Career Implications of the B.A. Degree
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.

B.A. Degree Requirements
The B.A. degree requires a total of 36 credit hours in addition to the general 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
- CJC 319 Theoretical Criminology
- CJC 470WI* Capstone: Criminal Justice and Criminology
- CJC 483 Methods of Sociological Research
- OR-
- CJC 486 Methods of Program Evaluation

*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 265 Delinquency and Juvenile Justice
- CJC 250 Introduction to Policing
- CJC 270 Principles of Corrections
- CJC 320 Supreme Court and the Criminal Process

All majors are required to take 6 non-CJC credit hours from the following list (no other courses will fulfill this requirement):

- ECON 416 or 435
- PSYCH 310, 312, 322, 323 or 433
- HIST 308B, or 425R
- BPA 310
- POLSC 311, 344, 348, 349, 405 or 408
- SOC 103, 202R, 203, 302, 313R, 320, 322, 332, 335R, 430R or 431
- PHIL 340

At least 18 of the 36 credit hours must be taken from the criminal justice and criminology program offerings at UMKC. Students should receive a grade of no lower than C- in the core required courses (CJC 101, 319, 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 12 Criminal Justice and Criminology credit hours (the
introductory course plus 9 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.

An introductory statistics course (SOC 363 or PSYCH 316) is recommended for those students who anticipate doing graduate study in criminal justice and criminology. Should an introductory statistics course be taken, it will be accepted as CJC elective credit and used to fulfill requirements for the CJC major or minor.

In selecting courses to fulfill the 12 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 required 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.

### Anthropology Courses

103 Introduction to Cultural Anthropology (3). An introduction to culture and the basic concepts of anthropology. Topics include kinship, language, and cultural change. Crosslisted with SOC 103. Offered: Fall/Winter.

202R Social Organization (3). 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 SOC 202R. Prerequisite: Soc 101. Offered: Every semester.

300CO CC: African American Experience Through the Prism of Film (3). This course explores the major themes in the African American experience through film and television. Using anthropological and historical analysis, film reception theory, as well as film and cultural criticism, students study a variety of film genres including silent motion pictures, talkies, musicals, all black cast films, documentaries, Hollywood and blaxploitation movies. Students will learn about the motion picture industry and pioneer independent Black Filmmakers especially Oscar Micheaux, Spike Lee, and Julie Dash. The course explores myths, stereotypes and images of African Americans in television and film. Students will interact with local people and organizations involved with African American Cinema such as the African American Film Society of Kansas City, Missouri. The course is offered at the GEM Theater in the History 18th & Vine District.

300R Special Topics in Anthropology (1-3). Each time this course is offered, a different area of anthropology, to be announced, will be examined. Crosslisted with SOC 300R. Prerequisite(s): None. Offered: On demand.

320 Social Stratification (3). 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 Sociology 320. Offered: Fall

322 Race and Ethnic Relations (3). 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. Crosslisted with (Anth or SOC 322). Offered: Fall/Winter.

328 Anthropology of the Body (3). 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

331 Urban Anthropology (3). A course designed to apply anthropological methods and 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 SOC 331. Offered: Fall.

343 Societies and Cultures of Latin America (3). 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. Crosslisted with SOC 343. Offered: Fall.

346 Cultures of the African Diaspora (3). This course will explore the cultures of African people and their descendents who settled in Europe, the Caribbean or the Americas due primarily to the impact of the Trans-Atlantic trade in human beings. The focus will be comparative, with emphasis on cultural adaptation, kinship systems, music and religion.

361 Anthropological Theory (3). A survey of the major orientations in cultural theory, their historical development, and contemporary issues and controversies in cultural theory. Prerequisite(s): 3 hour in Social Science. Offered: Fall/Winter.

441 Developing Countries (3). 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 (ANTH or SOC 441).

### Criminal Justice and Criminology Courses

101 Introduction to Criminal Justice (3). 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.

101P Introduction to Criminal Justice (3). 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.

250 Introduction to Policing (3). 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.

265 Delinquency and Juvenile Justice (3). 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.

270 Principles of Corrections (3). 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.

300 Structural Theories of Crime (3). The impact of sociodemographic, geographic, economic, political variables and sex roles in the occurrence and distribution of crime.

315 Crime, Criminals and Victims (3). 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.
317 Policies of Drug Use and Control (3). 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 Sociology 317. Offered annually.

319 Theoretical Criminology (3). A comprehensive examination of the major criminology theories, their philosophical assumptions, and the socio-historical context in which they were articulated. Also offered as Soc 319.

320 The Supreme Court and the Criminal Process (3). 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.

351 Policing in the Community (3). 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.

353 Ethical and Controversial Issues in Policing (3). This course covers various ethical and controversial issues concerning 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.

355 Crime and Public Policy (3). 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.

355P Crime and Public Policy (3). 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.

363 Introduction to Statistics in Sociology/Criminal Justice (3). 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, 116 or an equivalent. Offered: Fall/Winter

371 Community Corrections (3). 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

373 Institutional Corrections (3). 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 incude major constitutional appications, 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.

390 New Dimensions in Criminal Justice (3). 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.

420 Control of Crime and Delinquency (3). 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 Sociology 420.

421 Criminal Behavior in the United States (3). 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 Sociology 421.

421P Criminal Behavior in the United States (3). 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. Also offered as Sociology 421.

424 The Death Penalty in America (3). 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 Sociology 424.

429 Restorative Justice (3). 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.

435 Gender and Law (3). 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.

450 Women, Crime and Criminal Justice (3). 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 correctional systems. Controlling law enforcement agencies and continuous theoretical theories and research will also be examined in light of gender.

470WI Capstone: Criminal Justice and Criminology (3). 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: WEPRI; course taken in student’s last semester. Semester offered: Fall/Winter

475 White Collar Crime (3). 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 these 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.

476 Seminar in Criminal Justice and Criminal Issues (3). 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.

483 Methods of Sociological Research (3). A seminar which explores the interrelationships between theory, research and statistics. May focus on major contemporary issues building on and integrating knowledge obtained in previous courses. Also offered as Sociology 362.

486 Methods of Program Evaluation (3). 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 Sociology 486. Offered annually.

490 Directed Studies in Criminal Justice and Criminology (1-3). 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 the 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.

491 Internship in Criminal Justice (3-6). Intern experience under faculty supervision. Place and type alter. Federal or private agencies working with justice system involved offenders. Prerequisites: CJC 101, junior standing prior consent and arrangement. Offered: Every semester.

492 Topics in Criminal Justice (1). 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.
Department of Sociology/Criminal Justice and Criminology

**Sociology Courses**

H317 Policies of Drug Use and Control (3). 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 problem. Causes, and impact of substance abuse. Also offered as CJ 317. Annually.

101 Sociology: An Introduction (3). An introduction to the study of society and the basic concepts of sociology. Fall, winter, summer.

103 Introduction to Cultural Anthropology (3). An introduction to culture and the basic concepts of anthropology. Topics include kinship, language, and cultural change. Crosslisted with ANTH 103. Offered: Fall/Winter.

201 Introduction to Social Psychology (3). Socialization, the self and the group; attitude formation; the social background of perception, thought, motivation and valuation. Fall, winter.

202R Social Organization (3). 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 politity; 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 ANTH 202R. Prerequisite: Soc 101. Offered: Every semester.

203 Contemporary American Issues (3). 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.

211 Social and Psychological Development Through the Life Cycle (3). 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.

300R Special Topics in Sociology (1-3). Each time this course is offered, a different area of sociology, to be announced, will be given. Crosslisted with ANTH 300R.

302 Social Stratification (3). 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.

303R Cluster Course: Interdisciplinary Studies (3).

303CP Cluster Course: Religion in America (3).

303CT Cluster Course: Healing and Cultural Diversity (3).

303CW Cluster Course: Introduction to Women’s Studies (3). 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.

310R Families and the Life Course (3). 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.

313R Sociology of Women (3). 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.

316 Sociology of Death and Dying (3). 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. Winter.

317 Policies of Drug Use and Control (3). 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 CJ 317. Annually.

319 Theoretical Criminology (3). A comprehensive examination of the major criminological theories, their philosophical assumptions, and the socio-historical context in which they were articulated. Also offered as Criminal Justice and Criminology 319.

320 Social Deviance (3). 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.

322 Race and Ethnic Relations (3). 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. Crosslisted with (Anth or SOC 322). Offered: Fall/Winter.

328 Anthropology of the Body (3). 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.

331 Urban Anthropology (3). 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 ANTH 331. Offered: Fall.

332 Sociology of Political Life (3). 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. Winter.

335R Introduction to Social Work: Principles and Practice (3). 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.

343 Societies and Cultures of Latin America (3). 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. Crosslisted with ANTH 343. Offered: Fall.

346 Cultures of the African Diaspora (3). 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.

361 Social Theory (3). 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.

362 Methods of Sociological Research (3). Experimental and observational schemes; survey analysis; interview and questionnaire designs; scaling techniques; sampling. Also offered as CIS 483.

363 Introduction to Statistics in Sociology/Criminal Justice (3). 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, 116 or an equivalent. Offered: Fall.

390R Directed Field Experience I (1-6). 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.

391 Directed Field Experience II (1-6). A continuation of Sociology 390. Winter.

397 Independent Readings in Sociology (1-3). Intensive readings in an area selected by the student with prior consultation with instructor. Prerequisite: Twelve hours of sociology. On demand.

398 Independent Research in Sociology (1-6). Intensive research in an area selected by the student with prior consultation with instructor. Prerequisite: Twelve hours of sociology. On demand.

404WI The Sociology Capstone: Senior Seminar (3). 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: Soc. 361, Soc. 362, Soc 363. Offered: Fall/Winter.

410R Aging in Contemporary Society (3). 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. Fall.

411 Sociology of Human Sexuality (3). 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. Winter.

416 Aging and Developmental Disabilities (2). 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.

417 Practicum in Aging and Developmental Disabilities (1). 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.

420 Control of Crime and Delinquency (3). 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 Administration of Justice 420.) Fall.

420P Control of Crime and Delinquency (3). 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 Administration of Justice 420.) PACE Class to meet one night a week from 6:00-10:00 p.m. and one weekend: Fri E6:00-10:00; Sat 8:00-5:00; Sun 1:00-5:30 for eight weeks in either fall or winter semester. Part of PACE Block–Juvenile Justice and the Family. Offered: Fall.

421 Criminal Behavior in the United States (3). 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.

421P Criminal Behavior in the United States (3). 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. Part of PACE Block – Justice and Society.

424 The Death Penalty in America (3). 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.

430R Complex Organization (3). 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. Fall/ winter.

431 Social Organization of the City (3). 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. Fall/winter.

440R Sociology of Medicine (3). Relationship of basic concepts in sociology to health and medical care. Cultural and class variations in health status. Social and cultural aspects of health. Winter.

441 Developing Countries (3). 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 (ANTH or SOC 441).

470 Colloquium: Law and Social Structure (3).

486 Methods of Program Evaluation (3). 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.

H300R Special Topics in Sociology-Honors (3).
Department of Theatre

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Tom Mardikes
Curators’ Professor:
Felicia Londré
Professors:
John Ezell, Barry Kyle, Jennifer Martin
Associate Professors:
Louis Colaianni, Lindsay Davis, Tom Mardikes, Joe Price, Ronald Schaeffer, Victor Tan
Assistant Professors:
Gene Friedman, Chuck Hayes, Gary Holcombe
Visiting Professors:
Peter Altman, Dennis Rosa
Visiting Associate Professor:
Stephen Buescher, Joe Krienke and Stephanie Thompson

Professors Emeriti:
Jacques Burdick, Cal Pritner, Douglas Taylor
Associate Professors Emeriti:
Vincent Scassellati

Department Description
The Department of Theatre offers a bachelor of arts degree and a master of arts degree in actor, director, design, technical theatre and stage management. The Department of Theatre also is a member of the University/Resident Theatre Association.

Undergraduate Programs

Bachelor of Arts in Theater
The main objective of the B.A. Degree in Theatre is to give students a broad education. The degree requirements for the B.A. in Theatre furnish our majors with a well-rounded education in all aspects of theatre. While the program is broad in its scope it allows students the opportunity to develop specific areas of interest by choosing from one of three tracks.

General Theatre Track
The General Theatre track is for students who want the flexibility to explore all areas of theatre. They can choose from a wide variety of courses including stage management, design, performance and playwriting.

Performance Track
Students interested in performance may audition for the Performance track. Courses are geared toward students that want a professional career as an actor or want to prepare for placement in a top graduate program. Students receive instruction in voice, movement, acting, Shakespeare and specialty areas such as stage combat or physical theatre. Incoming students must audition to be admitted into the performance track. Students not admitted to this track can continue auditioning until the end of the 2nd semester of their sophomore year. Transfer students that are beyond the sophomore year can be admitted by audition. Please contact the Theatre Department for more information regarding the audition process.

Design/Tech Track
The Design/Tech track offers students interested in areas of technical theatre and design the opportunity to develop the skills necessary to work in the professional theatre or attend a top graduate school. An interview/portfolio review is required to be admitted into the design/tech track. 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. Students not admitted to this track can continue auditioning until the end of the 2nd semester of their sophomore year. Transfer students that are beyond the sophomore year can be admitted by approval of the faculty. Please contact the Theatre Department for more information regarding the interview/portfolio review process.

All Tracks
Production experience as well as internship opportunities give undergraduate theatre majors the chance to apply classroom theory to practical situations. Taking part as a crewmember, designer or performer in one of the departmental productions is an integral part of the theatre experience at UMKC. In a typical year there are two undergraduate productions in addition to as many as seven departmental productions, providing plenty of opportunity. The department also has relationships with many professional theatres. Internships and job opportunities frequently occur from these relationships.

Departmental Requirements - 49 total hours

Required Courses - 29 hours
• THEAT 113 Introduction to Technical Production
• THEAT 180 Theater Production
• THEAT 210 Introduction to Design for the Theatre
• THEAT 350 Theater History I
• THEAT 351WI Theater History II (Writing Intensive)
• THEAT 378 Stage Management I
• THEAT 380 Theater Production
• THEAT 415 Beginning Directing (Capstone)
• THEAT 400 or 497 Theatre Outreach / Internship

THEAT 210 Introduction to Design for the Theatre
THEAT 350 Theater History I
THEAT 351WI Theater History II (Writing Intensive)
THEAT 378 Stage Management I
THEAT 380 Theater Production
THEAT 415 Beginning Directing (Capstone)
THEAT 400 or 497 Theatre Outreach / Internship
Track Requirements - 20 hours
Undergraduates can choose the General Theatre track or audition/interview for the Performance or Design/Tech tracks. 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 - 6 total hours
6 credits total in music and art (3 hours each).

Theater Minor
A minor in theater consists of a minimum of 18 credit hours, including Theater 130, and 15 additional hours approved by a theater faculty adviser. A minimum of 9 hours must be completed at the 300-400 level.

Advising System
Advising services for undergraduate theater majors are coordinated by the undergraduate director, Joe Price, (816) 235-2858.

Theater Courses
100 Topical Studies in Theater Practice (1-3). (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 Theater major. Different sections of the course may be repeated. On demand.

101 Introduction to Acting (3). An introductory course to acquaint the freshman and non-major student with the process of acting through relaxation and improvisational exercise.

113 Introduction to Technical Production (3). An introduction to the technical production process with emphasis on production organization, planning and scenic construction techniques. Required laboratory work.


130 Foundations of Fine Arts Theater (3). An introduction to theater 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.

180 Theater Production I (1). A practicum course in theater 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.

210 Introduction to Design for the Theater (3). An introduction to aesthetics and design for the theater in the areas of scenery, costume, lighting and sound. The emphasis is upon the theory, vocabulary, form, style, historical influences and process in each area. Attendance at theater productions is required. Course is taught by design faculty from each area.

295 Speech for the Theater I (3). 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.

298 Movement for Actors (3). Basic movement training including relaxation and alignment techniques, exercises to increase physical facility and skills to enhance rhythmic coordination and physical characterization. Theater 298A prerequisite for theater 298B. Fall/winter.

300 Acting I (3). Basic principles of dramatic performance: training in voice, movement and language as an organic developmental whole.

300CH Cluster Course: Healing and the Arts (3). 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

300CR Interdisciplinary Studies: Special Topics (3). 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.

300CS Cluster Course: History of Russian Culture (3).

315 Acting II (3). Textual analysis, characterization and building a role. Prerequisite: Acting I.

317 Scene Design (3). Introduces the mechanics of layout: perspective, basic drafting techniques, front elevation and floorplan execution. Second half of the semester emphasizes scenic design as an art form. Prerequisite: Theater 113 (Theater 4311 recommended) or consent of instructor.

325 Acting III (3). Study and practice of period and contemporary styles of acting. Prerequisite: Acting II. Each semester.

329 Master Class in Acting (2). (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.

331 Advanced Oral Interpretation (3). 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.

333 History of Costuming (3).

340 Stage Makeup (1). Lecture and laboratory work in the fundamentals of makeup for the stage.

350 Theater History I (3). Development of theater art, including the physical stage, technical production elements, dramatic literature, and audience behavior from primitive origins to the 18th century.

351VI Theater History II (3). Development of Theater art, including the physical stage, technical production elements, dramatic literature, and audience behavior from the 18th century to the present.

352 History of Costuming (3). The study of the history of costume, with emphasis on the social and economic ramifications of costuming through the ages.

371 Stage Lighting (3). 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.

373 Master Class in Technology (2). 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.

378 Stage Management I (3). 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.

379 Master Class in Design (2). Class in advanced studies in design. May be repeated for credit up to eight hours as content and guest artist change. Permission of instructor or head of area required. Undergraduate students elect theater 379.

380 Theater Production II (1). (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: Theater 113. Fall/winter/summer.

395 Speech for the Theater II (3). (C,D) Theater 395 is a continuation of Theater 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: Theater 295A and 295B.

400 Special Problems in Theater (1-6). (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.

400A Special Problems in Theater: Acting (1-6).

400B Special Problems in Theater: Design (1-6).

400C Special Problems in Theater: Costumes (1-6).

400D Special Problems in Theater: Scenic Design (1-6).

400E Special Problems in Theater: Directing (1-6).

400F Special Problems in Theater: History (1-6).

400G Special Problems in Theater: Lighting (1-6).

400H Special Problems in Theater: Playwriting (1-6).
400I Special Problems in Theater: Sound (1-6).
400J Special Problems in Theater: Stage Management (1-6).
400K Special Problems in Theater: Technical Production (1-6).
400L Special Problems in Theater: Theater Management (1-6).
400M Special Problems in Theater: Theory and Criticism (1-6).
400N Special Problems in Theatre: Dramaturgy (1-6).
400P Special Problems: Storytelling Art and Technique (1).
400S Special Topics in Theater (1-6).
400X Special Problems in Theater (1-6).

415 Beginning Directing (3). Theory and process of play production, including interpretation, composition, picturization, movement, rhythm, and character interpretation.

425 Advanced Directing (3). Continuation of work in Theater 415, with special attention to proscenium, arena, and thrust staging techniques. Prerequisite: Theater 415 or equivalent experience.

431 Rendering Techniques for the Theater Designer I (3). Introduces the mechanics of handling black and white media to develop three-dimensional technique with an emphasis on observational training and object drawing.

432 Costume Design (3). 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.

437 Playwriting I (3). Theory and practice of writing for the theater with emphasis on the basic techniques.

438 Playwriting II (3). Theory and practice of writing for the theater with emphasis on advanced techniques.

476 Theater Sound and Electronics (3). 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 theater productions.

478 Stage Management II (2). 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: Theater 378 or consent of instructor. Fall/ winter/summer.

489 Seminar in Professional Theater (1). 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.

497 Repertory Theater (3-6). Apprentice-level responsibilities for Theater 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.

H350 Theater History I-Honors (3).
H351 Theater History II-Honors (3).
Urban Affairs

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

Program Coordinator:
Philip Olson

Program Description
The urban affairs major is for students who desire the breadth and depth of interdisciplinary study in preparation for advanced study in urban affairs, urban planning, public policy or public administration. Interested students should apply to the urban affairs director no later than the beginning of their junior year.

The urban affairs major also is 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 affairs major requires an internship comprising field placement in an agency of city, county, state or federal government; in the private sector; in business; or in private nonprofit organizations.

Bachelor of Arts: Urban Affairs

It is recommended that students planning an urban affairs major take Environmental Science 110R or Geology 220 to satisfy part of the natural sciences area general degree requirements of the College; and English 301W1, Writing and the Academy, should be elected as one of the humanities area courses. In preparation for the core requirements of the urban affairs major, the student should take Economics 201-202; Sociology 101; Geography 105 or Geography 150; or Psychology 210.

Requirements (42 hours)

Core Courses (18 hours)
All urban affairs majors are required to take the following core requirements:

- Geography 309: Introduction to Urban Geography
- Sociology 363: Introduction to Statistics OR Psychology 316: Quantitative Methods in Psychology
- History 356: Rise of the City in the U.S. OR History 356R: Kansas City: History of a Regional Metropolis
- Political Science 438: Urban Politics
- Sociology 362: Methods of Sociological Research OR Psychology 302W1: Experimental Psychology
- Philosophy 321: Introductory Ethics

Concentration (18 hours)
In addition to the core requirements, 18 hours must be selected from one of the four areas of concentration: urban planning; community social services; economic policy and operations; and environmental and resource development.

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) of six courses from those listed under the concentration chosen.

Urban Planning
- Art & Art History 353: Design & Form of KC
- Architecture & Environmental Studies 201: Environmental Design I
- Architecture & Environmental Studies 202: Environmental Design II
- Economics 395F: Economics of Minorities
- Economics 395G: Economics of Poverty
- Economics 435: Public Finance
- Economics 458: Urban Economics
- Geography 311: Economic Geography
- Geography 317: Cartography
- Geography 333: Geography Elements of Urban Planning
- Geography 401: Geographic Information Systems (GIS)
- Geography 437: Population Geography
- Geography 447: Intermediate Cartography
- Geography 460: Transportation Geography
- Geology 451: Geological Role in Land Use Planning
- Political Science 313: Politics in the American States
- Sociology 300RD: Special Topics: Urban Planning
- Sociology 331: Urban Anthropology
- Sociology 431: Social Organization of the City

Community Social Services
- CJC 101: Introduction to Administration of Justice
- CJC 317: Policies of Drug Use & Control
- Economics 395F: Economics of Minorities
- Economics 395G: Economics of Poverty
- Geography 437: Population Geography
- History 353: Immigrants and Immigration in American History
- Political Science 313: State and Local Government
- Political Science 438: Urban Politics
- Psychology 322: Child Psychology
- Psychology 406P: Introduction to Developmental Disabilities
- Psychology 407P: Developmental Disabilities and Community Life
- Psychology 430: Introduction to Community Psychology
- Sociology 302: Social Stratification
- Sociology 211: Social & Psychological Development
- Sociology 322: Race and Ethnic Relations
- Sociology 331: Urban Anthropology
- Sociology 335R: Introduction to Social Work
- Sociology 431: Social Organization of the City

Economic Policy and Operations
- Economics 301: Macroeconomics Analysis
- Economics 302: Microeconomics Analysis
- Economics 451: Institutional Economic Theory
- Economics 435: Public Finance
- Economics 458: Urban Economics
- Economics 486: Labor Economics
- Geography 311: Economic Geography
- Geography 333: Geographic Elements of Urban Planning
- Geography 401: Geographic Information Systems (GIS)
- Political Science 313: Politics in the American States

Environment and Resources
- Art & Art History 353: Design & Form of KC
- Economics 320: Environment, Resources and Economic Growth
- Economics 395C: Economics of Energy
- Economics 458: Urban Economics
• Geography 317: Cartography
• Geography 311: Economic Geography
• Geography 333: Geographic Elements of Urban Planning
• Geography 401: Geographic Information Systems (GIS)
• Geography 420: Water in Environmental Planning
• Geography 437: Population Geography
• Geology 451: Geological Role in Land Use Planning
• Political Science 313: Politics in the American States
• Psychology 403: Environmental Psychology
• Sociology 331: Urban Anthropology
• Sociology 431: Social Organization of the City

Internship (6 hours)
In developing internships, students present proposals to their adviser or to the urban affairs director. The proposal will include:

• A statement of learning objectives the student expects to realize through the experience, developed in conjunction with the adviser;
• A rationale for the site selected;
• Name of the site supervisor and schedule of hours;
• A plan for meeting with the adviser regularly.

The student is expected to participate in work activities in the 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 prepares written work as required by the faculty supervisor.

The internship may be repeated up to a maximum of three semesters. In approved cases, the student may use part of the internship to satisfy some of the concentration requirements.

The internship must be taken from among the following courses: Economics 497; Political Science 491; Psychology 461A; or Sociology 390R and 391.

The B.A. (Urban Affairs)-M.P.A. Program
This new program allows urban affairs majors to complete a B.A. in urban affairs 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 use some of the M.P.A. courses to satisfy urban affairs requirements, which reduces the number of courses needed to complete both degrees. Usually, a student takes four years for the B.A., plus two years for the M.P.A., but this program allows completion in five years.

Students interested in this option should contact the Public Administration Division of the Bloch School.

Summary
During the first 60 hours of coursework, students are advised to fulfill prerequisites for core courses and for required courses in the urban affairs 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 affairs major:

• Core course requirements: 18 hours
• Concentration requirements: 18 hours
• Internship: 6 hours

Total hours required for major in urban affairs: 42.
School of Biological Sciences

114 Biological Sciences Building
5007 Rockhill Road
(816) 235-1385
Fax: (816) 235-5158
sbs-undergrad@umkc.edu
http://www.umkc.edu/sbs

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

Dean:
Lawrence A. Dreyfus

Associate Dean:
Jakob Waterborg

Director of Curriculum:
Lynda S. Plamm

Interim Head, Division of Molecular Biology and Biochemistry:
Anthony Persechini

Head, Division of Cell Biology and Biophysics:
George J. Thomas, Jr.

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, 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 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
Students may pursue programs of study leading to a bachelor of science, a bachelor of science in biology with the cellular and molecular basis of health and disease emphasis, a bachelor of science with the pre-dentistry concentration, a bachelor of science with the bioinformatics concentration, a bachelor of science in medical technology, or a bachelor of arts degree. Courses taught by the School of Biological Sciences support the academic programs of 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.

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.

A Bachelor’s Degree in Biology - Career Options
Our programs prepare students for a variety of career opportunities. Options include conservation, forensics, industry, bioinformatics, academia, agriculture, government agencies, health professions like medicine, veterinary medicine and dentistry, and allied health professions such as optometry, medical technology and physical therapy.

Pre-Health Professions
A biology major is an excellent choice for students planning careers in medicine, dentistry, veterinary medicine, physical therapy, occupational therapy, optometry, medical technology 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. Students are strongly encouraged to consult with a School of Biological Sciences adviser to plan a course of study that meets the biology degree requirements as well as the prerequisites for his/her desired professional program.

Admissions
Students interested in pursuing undergraduate degree programs offered by the School of Biological Sciences are admitted through the UMKC Office of Admissions. Freshmen are admitted based on criteria described earlier in the catalog. 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 and an overall GPA of at least 2.0 in courses used to fulfill School of Biological Sciences major requirements.

Advising
The School of Biological Sciences’ team of well-trained academic advisers are also teaching faculty in the School. They assist undergraduate students in developing individual plans of study. At their first advising appointment, students receive a School of Biological Sciences Undergraduate Programs Handbook containing the latest information about degree requirements, academic rules and related matters. To facilitate progress toward the student’s degree, and to ensure that courses selected provide an appropriate academic program, students meet with an adviser each semester before registering for classes.
Students enrolled in double 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

School of Biological Sciences’ experienced team of advisers is knowledgeable about health professions program admission processes. It is important for students considering eventual application to medical school or other professional programs to consult early and often with a School of Biological Sciences adviser about appropriate choice in courses and additional preparation. Advisers assist the student in investigating various programs throughout the country and in planning an individualized undergraduate course of study, 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.

The Honors Program

The School of Biological Sciences offers an 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. Honors students are included in all scholarly and social events of the School of Biological Sciences graduate program, including special seminars and study trips. Those students selected will be invited to join the SBS Honors Student Cohort, which meets periodically for discussion of science and research related topics. 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 admissions 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 BIOL 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, and a senior thesis.
3. Maintain a 3.5 UM GPA; 3.5 science/mathematics UM GPA.
4. Successfully complete a semester of honors seminar LS H490WI.

General Education Requirements for Bachelor’s Degrees

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 Communication Studies 110 or Communication Studies 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:

- PHIL 210 or PHIL 222
- HIST 201, HIST 202, HIST 206 or HIST 208
- ANTH 103
- SOC 101 or SOC 103
- CS 100 or above
- 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.
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: HIST 101, HIST 102, HIST 360R or POLSCE 210 (3 hours).
2. Six additional credit hours from at least one field other than above, chosen from economics, history, political science, psychology, sociology, social science, geography, criminal justice (6 hours).

D. Humanities and Fine Arts (6 credit hours)
To develop students’ understanding of the ways in which humans have addressed their condition through imaginative work in the humanities and fine arts; to deepen their understanding of how that imaginative process is informed and limited by social, cultural, linguistic, and historical circumstances; and to appreciate the world of the creative imagination as a form of knowledge.

1. One 3 credit hour course chosen from English, communication studies, foreign Language, or philosophy
2. One 3 credit hour course chosen from art/art history, conservatory or theater.

E. Mathematics (3 credit hours)
To develop students’ understanding of fundamental mathematical concepts and applications. Students should develop a level of quantitative literacy that would enable them to make decisions and solve problems, and which could serve as a basis for continued learning. (The mathematics requirement for general education should have the same prerequisite(s) and level of rigor as college algebra.)

- MATH 110 or higher (including MATH 116).
- Students majoring in Biology will fulfill this requirement with the biology major’s mathematics requirement of MATH 210, Calculus I, or MATH 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 Test of General Education and the MAT, residency requirements, minimum GPA standards, and other requirements that may be specified.

Bachelor of Science in Biology
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 outlined above, students pursuing the B.S. degree in biology must meet the following requirements:

A. Biology Course Requirements
1. The following core courses (17 credit hours) are required.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 108</td>
<td></td>
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<tr>
<td>BIOL 108L</td>
<td></td>
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<tr>
<td>BIOL 109</td>
<td></td>
</tr>
<tr>
<td>BIOL 109L</td>
<td></td>
</tr>
<tr>
<td>BIOL 202</td>
<td></td>
</tr>
<tr>
<td>BIOL 206</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 341</td>
<td></td>
</tr>
</tbody>
</table>

2. Four of the following primary elective courses are required, for a minimum of 11 credit hours.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSBIOC 360</td>
<td></td>
</tr>
<tr>
<td>LSPHYS 316</td>
<td></td>
</tr>
<tr>
<td>BIOL 427</td>
<td></td>
</tr>
<tr>
<td>BIOL 302</td>
<td></td>
</tr>
<tr>
<td>LSMCRB 313</td>
<td></td>
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<tr>
<td>BIOL 409</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 430</td>
<td></td>
</tr>
<tr>
<td>BIOL 328</td>
<td></td>
</tr>
</tbody>
</table>

3. Two of the following primary elective laboratory courses are required for a minimum of 5 credit hours. One of these courses must be a Writing Intensive (WI) course. The second may be taken using the non-WI option.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSBIOC 360L</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 360WL</td>
<td></td>
</tr>
<tr>
<td>BIOL 328L</td>
<td></td>
</tr>
<tr>
<td>BIOL 328WL</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 360</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 360WL</td>
<td></td>
</tr>
<tr>
<td>LSANAT 118H</td>
<td></td>
</tr>
</tbody>
</table>

4. Biology Synthesis requirement may be met by a total of 3 credit hours chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 498WI</td>
<td></td>
</tr>
<tr>
<td>LS 490WI</td>
<td></td>
</tr>
<tr>
<td>LS 499</td>
<td></td>
</tr>
<tr>
<td>LS 497</td>
<td></td>
</tr>
</tbody>
</table>

5. A total of 42 credit hours of biology courses must be completed with grades of C- or better. At least 26 of these must be at the 300- to 400-level. A minimum of 21 credit hours of biology courses must be taken from the School of Biological Sciences. Additional credit hours of biology courses may be selected from the courses listed above or other biology majors courses. One laboratory course must be writing intensive.

B. Physical Sciences and Mathematics Course Requirements
The following courses must be completed with grades of C- or better.
**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

- **BIOL 108** General Biology I 3
- **BIOL 108L** General Biology I Laboratory 1
- **CHEM 211** General Chemistry I 4
- **CHEM 211L** Experimental General Chemistry I 1

  General Education Requirement (ex: ENGL 110) 3

**Total** 12

#### Winter Semester

- **BIOL 109** General Biology II 3
- **BIOL 109L** General Biology II Laboratory 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

### Sophomore Year

#### Fall Semester

- **BIOL 202** Cell Biology 3
- **CHEM 321** Organic Chemistry I 3
- **CHEM 321L** Organic Chemistry I Laboratory 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.

#### Winter Semester

- **BIOL 206** Genetics 3
- **CHEM 322R** Organic Chemistry II 3
- **CHEM 322L** Organic Chemistry II Laboratory 1
- **MATH 220** Calculus II 4

  **BIOL ___** Secondary Elective 3

**Total** 14

### Junior Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSBIOC 341</td>
<td>3</td>
</tr>
<tr>
<td>BIOL ___</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 240</td>
<td>5</td>
</tr>
<tr>
<td>General Education Requirement (ex. Humanities Elective)</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total** 16

#### Winter Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL ___</td>
<td>3</td>
</tr>
<tr>
<td>BIOL ___</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 250</td>
<td>5</td>
</tr>
<tr>
<td>General Education Requirement (ex. Higher Order Thinking elective)</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total** 16

### Senior Year

#### Fall Semester

- **BIOL ___** Primary Elective #3 3
- **BIOL ___** Primary Lab Elective #3 3
- **BIOL ___** Primary Elective 4 3

  General Education Requirement (ex. Social & Behavioral Science Elective) 3

  General Education Requirement (ex. Fine Art Elective) 3

**Total** 15

#### Winter Semester

- **BIOL ___** Secondary Elective 3
- **BIOL ___** Elective 3
- **BIOL ___** Elective 3

**Total** 15

### 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 108</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 108L</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 109</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 109L</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322R</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322L</td>
<td>1</td>
</tr>
<tr>
<td>MATH 220</td>
<td>4</td>
</tr>
<tr>
<td><strong>BIOL ___</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 17

2. The following primary elective courses: LSBIOC 430 and additional courses are required for a minimum of 11 credit hours.
### A. Biology course requirements

1. The following core courses (17 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 108</td>
<td>General Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 108L</td>
<td>General Biology I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 109</td>
<td>General Biology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 109L</td>
<td>General Biology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 206</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 341</td>
<td>Basic Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

2. The following primary elective courses (12 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSPHYS 316</td>
<td>Principles of Physiology</td>
<td>3</td>
</tr>
<tr>
<td>LSMCRB 313</td>
<td>Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 409</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 430</td>
<td>Molecular Biology and Genetic Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

3. Primary elective laboratory courses are required for a minimum of 5 credit hours, one of which must be writing intensive.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSPHYS 360L</td>
<td>Lab in Biochemistry and Molecular Biology (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LSPHYS 316L</td>
<td>Lab in Microbiology (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360L</td>
<td>Molecular Biology and Genetic Engineering (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LSNAT 118L</td>
<td>Introductory Anatomy Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

4. Biology Synthesis requirement (Choose a total of 3 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 498WI</td>
<td>Critical Analysis of Biological Issues (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LS 490WI</td>
<td>Senior Seminar (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LS 499</td>
<td>Undergraduate Research</td>
<td>1-3</td>
</tr>
<tr>
<td>LS 497</td>
<td>Special Topics</td>
<td>1-3</td>
</tr>
</tbody>
</table>

### B. Physical sciences and mathematics requirements

All of the following courses are required. A grade of C- or better is required in each course used to fulfill these requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101</td>
<td>Problem Solving and Programming I</td>
<td>3</td>
</tr>
<tr>
<td>CS 191</td>
<td>Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CS 201</td>
<td>Problem Solving and Programming II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 235</td>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 210</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 220</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 240</td>
<td>Physics for Science and Engineering I</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 250*</td>
<td>Physics for Science and Engineering I*</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 211</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 211L</td>
<td>Experimental General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 212R</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 212L</td>
<td>Experimental General Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321L</td>
<td>Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 322R</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322L</td>
<td>Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
</tbody>
</table>

*Students may choose 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.

### 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. The following core courses (17 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 108</td>
<td>General Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 108L</td>
<td>General Biology I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 109</td>
<td>General Biology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 109L</td>
<td>General Biology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 206</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 341</td>
<td>Basic Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

2. The following primary elective courses (12 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSPHYS 316</td>
<td>Principles of Physiology</td>
<td>3</td>
</tr>
<tr>
<td>LSMCRB 313</td>
<td>Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 409</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 430</td>
<td>Molecular Biology and Genetic Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

3. Primary elective laboratory courses are required for a minimum of 5 credit hours, one of which must be writing intensive.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSNAT 118L</td>
<td>Introductory Anatomy Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

4. Biology Synthesis requirement (Choose a total of 3 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 498WI</td>
<td>Critical Analysis of Biological Issues (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LS 490WI</td>
<td>Senior Seminar (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LS 499</td>
<td>Undergraduate Research</td>
<td>1-3</td>
</tr>
<tr>
<td>LS 497</td>
<td>Special Topics</td>
<td>1-3</td>
</tr>
</tbody>
</table>
5. Either LSMCRB 435, Immunology, or LSMCRB 431, Virology, is required.

6. 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. Additional credit hours of biology courses may be selected from the courses listed above or other biology majors courses. One laboratory course must be writing intensive. The UM Biology GPA must be a minimum of 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.

- **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. The following core courses (17 credit hours)

    | Course       | Title                          | Hours |
    |--------------|--------------------------------|-------|
    | BIOL 108     | General Biology I              | 3     |
    | BIOL 108L    | General Biology I Laboratory   | 1     |
    | BIOL 109     | General Biology II             | 3     |
    | BIOL 109L    | General Biology II Laboratory  | 1     |
    | BIOL 202     | Cell Biology                   | 3     |
    | BIOL 206     | Genetics                       | 3     |
    | LSBIOC 341   | Basic Biochemistry             | 3     |

  2. The following primary elective laboratory courses (11 credit hours)

    | Course       | Title                          | Hours |
    |--------------|--------------------------------|-------|
    | LSBIOC 316   | Principles of Physiology       | 3     |
    | LSMCRB 433   | Introduction to Microbiology   | 3     |
    | BIOL 409     | Developmental Biology          | 3     |
    | BIOL 328     | Histology                      | 2     |

3. Primary elective laboratory courses are required for a minimum of 5 credit hours. (BIOL 328WL must be taken using the writing intensive option.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 328WL</td>
<td>Laboratory in Histology and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cellular Ultrastructure (WI)</td>
<td></td>
</tr>
<tr>
<td>LSANA T 118L</td>
<td>Human Anatomy Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

4. Biology Synthesis requirement (Choose a total of 3 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 498WI</td>
<td>Critical Analysis of Biological Issues</td>
<td>3</td>
</tr>
<tr>
<td>LS 490WI</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>LS 499B</td>
<td>Undergraduate Research</td>
<td>1-3</td>
</tr>
<tr>
<td>LS 497B</td>
<td>Special Topics</td>
<td>1-3</td>
</tr>
</tbody>
</table>

5. Emphasis requirement (Choose a total of 3 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSMCRB 435</td>
<td>Immunology</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 430</td>
<td>Molecular Biology and Genetic Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

6. 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. Additional credit hours of biology courses may be selected from the courses listed above or other biology majors courses. One laboratory course must be writing intensive. The UM biology GPA must be a minimum of 2.0.

B. Physical sciences and mathematics requirements
All of the following courses are required. A grade of C- or better is required in each course used to fulfill these requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 220</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 240</td>
<td>Physics for Science and</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Engineering I</td>
<td></td>
</tr>
<tr>
<td>PHYS 250*</td>
<td>Physics for Science and</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Engineering II</td>
<td></td>
</tr>
<tr>
<td>CHEM 211</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 211L</td>
<td>Experimental General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 212R</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 212LR</td>
<td>Experimental General Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321L</td>
<td>Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 322R</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322L</td>
<td>Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
</tbody>
</table>

*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.
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 300-level 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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 108</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 108L or</td>
<td></td>
</tr>
<tr>
<td>BIOL 109</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 109L or</td>
<td></td>
</tr>
<tr>
<td>BIOL 202</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 206</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 341</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360L or</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 360WL</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 380L or</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 380WL</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 424</td>
<td>3</td>
</tr>
</tbody>
</table>

2. In addition, students must take three or more hours, one hour of which must be upper-level, to be chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 328</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 328L or</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 328WL</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 318</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 318L</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 318WL</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 430</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360L or</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360WL</td>
<td></td>
</tr>
</tbody>
</table>

B. Additional Science and Mathematics Course Requirements
The following courses in mathematics, physics and chemistry are required with grades of C- or better.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210 or</td>
<td>4</td>
</tr>
<tr>
<td>MATH 235</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 210</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 211</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 211L</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 212R</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 212LR</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 320</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 320L</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 341</td>
<td>4</td>
</tr>
</tbody>
</table>

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 also fulfills the general education synthesis requirement.

Bachelor of Arts in 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 or who wish to place more emphasis on organismal biology topics.

Degree Requirements
In addition to meeting the general education degree requirements outlined previously, students pursuing the B.A. degree in biology must meet the following requirements:

A. Biology Course Requirements
1. The following core courses (17 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 108</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 108L</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 109</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 109L</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 206</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 341</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 430</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 430L or</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 430WL</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360L or</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360WL</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 424</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Two of the following primary elective courses (minimum 5 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSBIOC 360</td>
<td>3</td>
</tr>
<tr>
<td>LSBPHYS 316</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 427</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 302</td>
<td>3</td>
</tr>
<tr>
<td>LSMCRB 313</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 409</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 430</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360L or</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 360WL</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 424L or</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 424WL</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360L or</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 360WL</td>
<td>3</td>
</tr>
</tbody>
</table>

3. One of the following primary elective laboratory courses (minimum 2 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 312L or</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 312WL</td>
<td>3</td>
</tr>
<tr>
<td>LSMCRB 313L or</td>
<td>3</td>
</tr>
<tr>
<td>LSMCRB 313WL</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 328L or</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 328WL</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360L or</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360WL</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 424L or</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 424WL</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360L or</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360WL</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360L or</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360WL</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 424L or</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 424WL</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360L or</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360WL</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 424L or</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 424WL</td>
<td>3</td>
</tr>
</tbody>
</table>

4. Biology Synthesis requirements may be met by a total of 3 credit hours chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 498WI</td>
<td>3</td>
</tr>
<tr>
<td>LS 490WI</td>
<td>3</td>
</tr>
<tr>
<td>LS 499</td>
<td>1-3</td>
</tr>
<tr>
<td>LS 497</td>
<td>1-3</td>
</tr>
</tbody>
</table>

5. A total of 38 credit hours of biology courses must be completed with grades of C- or better. At least 24 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. Additional credit hours of biology courses may be selected from the courses listed above or other biology majors courses. One of these courses must be writing intensive.

B. Additional Science and Mathematics Courses

Requirements

The following courses must be completed with grades of C- or better:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210</td>
<td>Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 235</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 210</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 211</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 211L</td>
<td>Experimental General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 212R</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 212RL</td>
<td>Experimental General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 320</td>
<td>Elementary Organic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 320L</td>
<td>Experimental Organic Chemistry</td>
<td>4</td>
</tr>
</tbody>
</table>

Requirements for a Minor in Biology

Hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BIOL 108</td>
<td>General Biology I</td>
<td>3</td>
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<tr>
<td>BIOL 108L</td>
<td>General Biology I Lab</td>
<td>1</td>
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<tr>
<td>BIOL 109</td>
<td>General Biology II</td>
<td>3</td>
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<tr>
<td>BIOL 109L</td>
<td>General Biology II Lab</td>
<td>1</td>
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<tr>
<td>BIOL 202</td>
<td>Cell Biology</td>
<td>3</td>
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<tr>
<td>BIOL 206</td>
<td>Genetics</td>
<td>3</td>
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<tr>
<td>BIOL 301</td>
<td>Laboratory in Developmental Biology, Genetics and Cell Biology</td>
<td>4</td>
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</tbody>
</table>

One laboratory course chosen from LSANAT 118L, LSMCR 313L, LSMCR 313WL, LSBIOC 360L, LSBIOC 360WL, BIOL 328L or BIOL 328WL. Any upper-level biology courses chosen from the B.A. or B.S. coursework requirements or electives. The seven hours may include any of the upper-level lab courses listed above.

Total 21 hours

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.

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 areas of concentration. Suggested courses include Biology 102, 102L, LSANAT 118, 118L, LSMCRB 112,113, 114L, LSPHYHS 117 for all students. 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 the basic areas of the biological sciences. This track is the same introductory track followed by biology majors, so students enrolling in these courses should have a background in high school biology and chemistry.

Biology Courses

102 Biology and Living (3). 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.

102L Biology and Living Laboratory (1). 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: BIOL 102 or concurrent.

108 General Biology I (3). 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.

108L General Biology I Laboratory (1). 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: Biol 108 Offered: (semester):

109 General Biology II (3). 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: Biol 108.

109L General Biology II Laboratory (1). 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: Biol 109

202 Cell Biology (3). 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: BIOL 109 or LSANAT 119/119L AND LSMCRB 121; CHEM 212.

203 Essential Cell Biology (3). 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.

206 Genetics (3). 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: BIOL 108, BIOL 109, CHEM 212.

302 General Ecology (3). 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: BIOL 108, BIOL 109, or BIOL 102.

303 Invertebrate Zoology (3). Taxonomy, evolutionary relationships, behavior, reproduction, morphology and ecology of the invertebrates. Three hours lecture a week. Prerequisites: BIOL 108 & 109, CHEM 212

305 Marine and Freshwater Biology (3). 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: BIOL 108 & 109, CHEM 211.

308 Vertebrate Zoology (3). Taxonomy, evolutionary relationships, behavior, reproduction, morphology and ecology of the vertebrates. Three hours lecture a week. Prerequisites: BIOL 108 & 109, CHEM 212.

312WL Laboratory in Developmental Biology, Genetics and Cell Biology (3). 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: LSBIOC 341, BIOL 409 corequisite.

314 Entomology (3). Anatomy, physiology and identification of insects with emphasis on their environmental adaptations. Three hours lecture per week. Prerequisite: BIOL 109 or LS ANAT 119.

322 General Parasitology (3). 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): BIOL 109 OR LSANAT 119. Offered: Summer

326 Biological Conservation (2). 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: BIOL 302 recommended: BIOL 108 & 109 required

327 Biogeography and Biodiversity (2). Evolutionary and climatological effects on the geographic distribution of organisms, including areas of endemism as well as preservation of biodiversity. Prerequisite(s): BIOL 108 & 109. Offered: Summer

328 Histology (2). Animal tissues and their specialization in the organism, with major emphasis on higher organisms. Two hours lecture per week. Prerequisite(s): BIOL 109 or BIOL 118, BIOL 202, CHEM 212.
328L Laboratory in Histology and Cellular Ultrastructure (3).
Examination of structure/function relationships at the subcellular, cellular and organ levels. Both plants and animals will be examined with emphasis on vertebrates. Five hours lab per week. Prerequisite: BIOL 201, CHEM 212, (corequisite) BIOL 328, consent of SBS Adviser. Offered: Fall

328WL Laboratory in Histology and Cellular Ultrastructure (3).
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: BIOL 202, CHEM 212, (co-requisite) BIOL 328, consent of SBS adviser. 329

329 Endocrinology (2).
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: BIOL 202 (Physiology background recommended.)

331 Reproductive Biology (2).
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 Anat 118/119, LSPhys 117/316, Biol 202 and/or Biol 329. Offered: Summer

344 Biorganic Structure and Biomolecular Function (3).
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: BIOL 109 and CHEM 320, CHEM 322. Offered (semester): Winter.

346 Plant Biology (3).
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 of lecture per week. Prerequisites: BIOL 202 and BIOL 206.

405 Introduction to Evolution (3).
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.

409 Developmental Biology (3).
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: BIOL 202, BIOL 206.

427 Plant Physiology (3).
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: BIOL 202, BIOL 206 and LSBIOC 341.

438 Molecular Recognition in Cellular Biology (2).
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: BIOL 108 & 109, BIOL 360, BIOL 202 & 206. Offered: Fall

490WI Senior Seminar (3).
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.

497A Special Topics-Bioinformatics (1-3).
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 LS 497 and 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 Adviser.

497B Special Topics-Genetics (1-3).
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 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 LS 497 and 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

497C Special Topics-Microbiology (1-3).
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 LS 497 and 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

497D Special Topics-Physiology (1-3).
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 LS 497 and 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

497E Special Topics - Biochemistry (1-3).
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 LS 497 and 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

497F Special Topics - Biophysics (1-3).
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 LS 497 and 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

497G Special Topics-Cell Biology (1-3).
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 LS 497 and 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

497H Special Topics: Neuroscience (1-3).
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 LS 497 and 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

497I Special Topics-Botany (1-3).
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 LS 497 and 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

497 Special Topics-Zoology (1-3). 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 LS 497 and 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

497K Special Topics-Ecology (1-3). 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 LS 497 and 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

497L Special Topics-Biological Sciences (1-3). 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 LS 497 and 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

497M Undergraduate Research-Botany (1-3). 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 LS 497 and 499 may not exceed 4 credit hours towards biology course degree requirements.

497N Undergraduate Research-Botany (1-3). 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 LS 497 and 499 may not exceed 4 credit hours towards biology course degree requirements.

497P Special Topics-Biotechnology (1-3). 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 LS 497 and 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

499A Undergraduate Research-Bioinformatics (1-3). 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 Adviser. Combined credit for LS 497 and 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

499B Undergraduate Research-Genetics (1-3). 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 LS 497 and 499 may not exceed 4 credit hours towards Biology course degree requirements.

499C Undergraduate Research-Microbiology (1-3). 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 LS 497 and 499 may not exceed 4 credit hours towards biology course degree requirements.

499D Undergraduate Research-Physiology (1-3). 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 LS 497 and 499 may not exceed 4 credit hours towards Biology course degree requirements.

499E Undergraduate Research-Biochemistry (1-3). 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.

499F Undergraduate Research- Biophysics (1-3). 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 LS 497 and 499 may not exceed 4 credit hours towards Biology course degree requirements.

499G Undergraduate Research-Cell Biology (1-3). 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 LS 497 and 499 may not exceed 4 credit hours towards Biology course degree requirements.

499H Undergraduate Research-Neuroscience (1-3). Independent research, including the 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 LS 497 and 499 may not exceed 4 credit hours towards Biology course degree requirements.

499I Undergraduate Research-Neuroscience (1-3). Independent research, including the 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 LS 497 and 499 may not exceed 4 credit hours towards Biology course degree requirements.

499J Undergraduate Research-Zoology (1-3). 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 LS 497 and 499 may not exceed 4 credit hours towards biology course degree requirements.

499K Undergraduate Research-Ecology (1-3). 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 LS 497 and 499 may not exceed 4 credit hours towards Biology course degree requirements.

499L Undergraduate Research-Biological Sciences (1-3). Independent research, including the writing of research reports in the area of 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 LS 497 and 499 may not exceed 4 credit hours towards Biology course degree requirements.

499M Undergraduate Research-Biological Sciences Honors (1-3). Independent research, including the writing of research reports in the area of biological sciences. Prerequisites: Consent of SBS adviser required.

499N Undergraduate Research-Biotechnology (1-3). 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, minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser. Offered: Fall, Winter, Summer

H490W1 Honors Senior Seminar (3). Discussion, writing and specific readings to coordinate with and amplify topics covered in School of Biological Sciences seminars; must include a term paper on a specific topic. Designation: Writing Intensive. Prerequisite(s): Completion of core requirements, consent of SBS adviser.

Life Sciences - Anatomy Courses

118 Introductory Anatomy (3). 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.

118L Introductory Anatomy Laboratory (2). Laboratory investigation of cells, tissues, and organs with special emphasis on their interrelationship in vertebrates. One hour recitation and three hours lab per week.

119 Functional Anatomy I (3). An introduction to the functional anatomy of vertebrates with emphasis on organs, organ systems and tissues. Three hours lecture per week.

119L Functional Anatomy I Laboratory (4). An introduction to the functional anatomy of vertebrates with emphasis on organs, organ systems and tissues. Three hours recitation per week.

Life Sciences - Biochemistry Courses

304 Biochemistry and Nutrition (4). 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.

3120 Biochemistry and Nutrition (3). The fundamentals of biochemistry and the nutritional implications as they relate to source and utilization of essential nutrients.

3240 Applied Nutrition (3). 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.

341 Basic Biochemistry (3). 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: BIOL 202 and CHEM 320 or CHEM 322.

360 Biochemistry (3). 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: BIOL 202, BIOL 206, LSBIOC 341, and CHEM 320 or CHEM 322.

360L Laboratory in Biochemistry and Molecular Biology (3). 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.

360WL Laboratory in Biochemistry and Molecular Biology (3). 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): LSBIOC 341.

365 Human Biochemistry I (3). 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, 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. Prerequisites: BIOL 202 and CHEM 320 or 322R.

366 Human Biochemistry II (3). 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

425 Bioinformatics (3). 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: LSBIOC 341 or permission of instructor

430 Molecular Biology and Genetic Engineering (3). 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: BIOL 202, BIOL 206, and LSBIOC 341.

Life Sciences - Microbiology Courses

112 Microbiology and Living (3). 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

113 Introductory Microbiology (3). 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.

114L Introductory Microbiology Laboratory (2). Introductory laboratory studies in microbiology and infection to correlate with LSBMCRB 113. Four hours per week. For non-majors only; does not count toward biology degree requirements. Prerequisite: LSBMCRB 112 or 113.

121 Human Biology III (Microbiology) (3). Basic concepts of microbiology with emphasis on infectious diseases and host defenses. Three hours lecture per week. Prerequisite(s): LSANA T 119, CHEM 211

121L Human Biology III (Microbiology) Lab (1). Laboratory exercises demonstrating basic concepts of microbiology with emphasis on infectious diseases and host defenses. Three hours laboratory per week. Prerequisites or corequisite: LSBMCRB 121 Offered: (semester)

313 Microbiology (3). 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: BIOL 202, BIOL 206, and LSBIOC 341 co-requisite.

313L Laboratory in Microbiology (3). 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, LSBMCRB 313, LSBIOC 341, consent of SBS adviser. Offered: Fall

313WV Laboratory in Microbiology (3). 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, LSBMCRB 313, LSBIOC 341 Offered: Fall

4180 Microbiology (4). 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.

431 Virology (3). 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 viruses as model systems to study mammalian cells. Three hours lecture per week. Prerequisites: BIOL 202 and 206; pre or co-requisite LSBIOC 341 or 365

435 Immunology (3). 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: LSBMCRB 121 or LSBMCRB 313, and LSBIOC 341 or LSBIOC 366. Offered: Winter Semesters

Life Sciences - Physiology Courses

117 Human Physiology (3). Introduction to body functions presented in an integrated approach. Three hours lecture per week. For non-majors only; does not count toward biology degree requirements.

3070 Oral Physiology (3). 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 neuropsychophysiology, muscle function, salivation, and endocrinology.

316 Principles of Physiology (3). 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: BIOL 202, BIOL 206, and LSBIOC 341.

399 Pharmacy Physiology I (3). Introduction to the general principles of neurophysiology. Prerequisites: BIOL 202 and CHEM 320.

400 Pharmacy Physiology II (3). 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: LSPHYS 399.

401 Physiology Lecture (5). 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.
Introduction

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 (M.B.A.), master of public administration (M.P.A.), and the master of science in accounting (M.S. in accounting). The School has two joint degree programs with the UMKC School of Law, the J.D./M.B.A. and the J.D./M.P.A. degrees, and also participates in the Interdisciplinary Ph.D. program. Additionally, within the M.B.A. program there is an Executive M.B.A. offering. 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 1100 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
The Henry W. Bloch School of Business and Public Administration supports the mission of the University of Missouri-Kansas City and provides high quality professional education for a changing world.

The Bloch School offers undergraduate, graduate, executive and other outreach programs responsive to business and community needs. These programs are delivered through a curriculum combining a solid preparation in basic management functions with the skills of leadership, entrepreneurship, strategic decision-making and an understanding of the technological and global environment. The School’s faculty is committed to teaching, scholarship and service, and to continuously improving a learning environment that brings discipline to the real-world challenges of management practice.

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.

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. Undergraduates must be advised each semester. For more information, contact the Student Services Office at (816) 235-2215. Faculty of the School’s four curricular departments are available to discuss students’ programs. Information can also be found on the Bloch School Web site at http://www.umkc.edu/bloch.

Scholarships
The Bloch School offers numerous scholarships for students enrolled in Bloch degree programs. Information and applications are available in the Student Services Office, room 115, or on the Bloch School Web site. March 1 is the deadline for the majority of these scholarships, which are awarded for the following academic year. For information on loans, grants, and other financial aid, contact the Financial Aid and Scholarships Office.

Internships
An internship is recommended for students without prior work experience in their field. Students should identify a Bloch School faculty member qualified and willing to supervise an internship and complete an independent study form available in the Student Services Office. All interested students should contact the UMKC Career Services Office for more details.

International Study Abroad
Bloch School undergraduate 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. The Bloch School maintains bilateral exchange agreements with business schools in the United Kingdom, France, Germany and Spain. Students who are interested in study abroad opportunities should contact the Bloch School Student Services Office or the UMKC Office of International Academic Programs.

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.

Bloch School Student Association
The Bloch School Student Association (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.
Collegiate Entrepreneurs Organization
CEO is the premier national network of college students who are seriously interested in entrepreneurship. The UMKC chapter’s mission is to inform, support, and inspire college students to be entrepreneurial and seek opportunity through enterprise creation.

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, what industry expects from new graduates and how students can best prepare themselves to become successful professionals in today’s job market.

IMA Student Chapter
The Institute of Management Accountants Student Affiliate Group conducts its professional programs in cooperation with the Kansas City chapter of the Institute of Management Accountants. Student members are eligible for participation in the activities of the UMKC student chapter, the Kansas City professional chapter and the international organization.

Students in Free Enterprise
SIFE is an international nonprofit organization with teams at more than 700 colleges and universities around the world. The group is characterized by faculty encouraging students, students energizing business leaders, business leaders helping faculty, and everyone working together to teach the principles of free enterprise. Student teams develop and implement business/commerce related projects for the community and compete with other teams across the country for prizes.

Honor Societies
Beta Gamma Sigma is a national society for students in business administration, including students, faculty, members of the administrative staff, alumni and honorary members. Membership is by election from seniors in the upper one-tenth of their graduating class with a grade-point average of at least 3.0, and graduate students.

Special Programs and Centers

Center for International Business
Henry W. Bloch School of Business and Public Administration
5110 Cherry
(816) 235-5259
http://www.umkc.edu/international

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 which support the curricula for the BBA, 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.

Entrepreneurial Growth Resource Center
Henry W. Bloch School of Business and Public Administration
4747 Troost
(816) 235-5417
http://www.umkc.edu/egrc

The mission of the Entrepreneurial Growth Resource Center is to provide students with experiential learning opportunities and involvement in forums that challenge their academic and business experience. Students provide professional consulting and research for starting new ventures, as well as for established small-business firms in the Kansas City area. This experience serves to bond the University with its community while enhancing student competence through practical application of academic principles.

KCSourceLink
Henry W. Bloch School of Business and Public Administration
4747 Troost
(816) 235-6500
http://kcsourcelink.org

KCSourceLink’s mission is to help small businesses in the Kansas City region - from Jefferson City to Topeka - grow and succeed. KCSourceLink connects a network of hundreds of resource providers in the Kansas City region that offer business-building products and services for small businesses. KCSourceLink facilitates the linking of these resource partners to one another and to the small and emerging business owner.

Midwest Center for Nonprofit Leadership
Henry W. Bloch School of Business and Public Administration
5110 Cherry
(816) 235-2305
http://www.umkc.edu/mcnl

The Midwest Center for Nonprofit Leadership is the Bloch School’s education and 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 Development Center
Henry W. Bloch School of Business and Public Administration
4747 Troost
(816) 235-6063
http://www.bloch.umkc.edu/sbdc

The Missouri Small Business Development Centers, a partner with the University of Missouri Outreach & Extension Business Development Programs, educates individuals to successfully start, run and grow small and entrepreneurial businesses that build a viable economic base, improve lives and enhance communities. The SBDC delivers quality services in a timely fashion, communicates the program systematically and delivers programs and information based on unbiased research and facts. In Kansas City, the SBDC is part of the UMKC Bloch School of Business and Public Administration.
The SBDC helps both established businesses and those that are just beginning.

Undergraduate Programs

Admission Requirements
Admission to undergraduate programs is available in the fall, winter and summer semesters. Students may 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. Students may enter the Bloch School as freshmen or transfer students. All students are classified as pre-business or pre-accounting until they have completed 60 semester hours of specified general education requirements from UMKC or another accredited institution. Students are eligible for admission into the Bloch School as freshmen if they are admitted to UMKC. In order to move into the second year, freshmen must compile 2.25 cumulative and University of Missouri grade-point averages. To transition into the junior/senior portion of the bachelor of business administration (B.B.A.) or the bachelor of science in accounting (B.S. in accounting), cumulative and University of Missouri grade-point averages of 2.5 are required. Students with less than the stated requirements, may be admitted to UMKC as pre-business or pre-accounting students in the College of Arts and Sciences. Applicants should contact the Bloch School Student Services Office at (816) 235-2215 for current course and grade requirements and for application materials and deadlines.

Retention and Graduation Requirements
Students are required to maintain a 2.25 cumulative University of Missouri GPA while enrolled in the B.B.A. and B.S. in accounting programs. To graduate, they are required to achieve 2.25 in major and University of Missouri GPAs.

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. Freshmen are required to compile a 2.25 cumulative and University of Missouri grade-point average in order to move into the next year. The probation rules described above do not apply to freshmen moving into the sophomore year.

All students must pass the Written English Proficiency Test (WEPT) before enrolling in Communication Studies 341WI. Information regarding the WEPT is given in the course schedule. Graduating seniors must complete the Major Field Assessment Test and the Academic Profile Exam that are administered by the UMKC Assessment Office each semester.

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 120 credit hours (B.B.A.) or 121 hours (B.S. in accounting).
2. Achievement of a 2.25 GPA; satisfactory academic standing is based on:
   • Cumulative GPA of 2.25 for all University of Missouri courses;
   • 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 Academic Profile Exam and the Major Field Assessment Test.
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 the 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.umkc.edu/bloch.

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 the Student Services Office about credit by exam restrictions.

Credit/No Credit
All courses completed in the Bloch School must be taken for a letter grade.

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 Bloch School Student Services Office, 115 Bloch.

Independent Study
Students are limited to a total of nine hours of BMA 327, BMA 491, BA 497, BMA 497 and/or ACTG 497, to include no more than six hours of independent study and no more than three hours of any one practicum, including the small business practicum. Interested students should consult with an adviser in the Bloch School Student Services Office.

General Education Requirements
The following courses (Preparatory and Basic Skills Requirements) are prerequisite to admission to the junior/senior portion of the bachelor of business administration (B.B.A.) or 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 undergraduate programs are noted. All courses, except electives, must be completed for a grade.

Preparatory and Basic Skills Requirements

Humanities (12-15 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 110</td>
<td>Fund. of Eff. Speaking &amp; Listening</td>
<td>3</td>
</tr>
<tr>
<td>COMS 312</td>
<td>Advanced Public Speaking (for B.S. in Accounting students; B.B.A. students take during final 60 hours)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110</td>
<td>Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 225</td>
<td>English II</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 210</td>
<td>Foundations of Philosophy</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Business Administration (60 hours)
Courses for the B.B.A. program are listed below. Students should ensure that prerequisites are taken in the proper sequence. Students may earn a general B.B.A. degree or a B.B.A. degree with an emphasis in finance.

Core B.B.A. Curriculum

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 324</td>
<td>Elements of the Marketing Concept</td>
<td>3</td>
</tr>
<tr>
<td>BA 325</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>BA 436</td>
<td>Production/Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>COMS 312</td>
<td>Advanced Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COMS 341</td>
<td>Rhetorical Theory and Criticism</td>
<td>3</td>
</tr>
<tr>
<td>ECON 302</td>
<td>Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BMA 305</td>
<td>Behavior in Human Systems</td>
<td>3</td>
</tr>
<tr>
<td>BMA 306</td>
<td>Legal, Ethical &amp; Reg. Environ. of Business</td>
<td>3</td>
</tr>
<tr>
<td>BMA 360</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BMA 410</td>
<td>Environment of International Business</td>
<td>3</td>
</tr>
<tr>
<td>BMA 471</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>BIS 302</td>
<td>Introduction to Management Info. Systems</td>
<td>3</td>
</tr>
<tr>
<td>BDS 308</td>
<td>Introduction to Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BDS 330</td>
<td>Introduction to Management Science</td>
<td>3</td>
</tr>
</tbody>
</table>

General B.B.A. (18 hours)

BMA 405 Leadership Skills in Human Systems 3
Non-business electives to equal 15 hours

Finance Emphasis (18 hours)

Students must take at least 3 of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 427</td>
<td>Debt Instruments and Markets</td>
<td>3</td>
</tr>
<tr>
<td>BA 428</td>
<td>Commercial Bank Management</td>
<td>3</td>
</tr>
<tr>
<td>BA 430</td>
<td>Investment Management</td>
<td>3</td>
</tr>
<tr>
<td>BA 435</td>
<td>Intermediate Financial Management</td>
<td>3</td>
</tr>
</tbody>
</table>

The remaining 12 hours must be taken from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTG 310</td>
<td>Intermediate Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>ACTG 311</td>
<td>Intermediate Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ECON 301</td>
<td>Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 331</td>
<td>Money and Banking</td>
<td>3</td>
</tr>
<tr>
<td>ECON 431</td>
<td>Monetary Theory and Policy</td>
<td>3</td>
</tr>
<tr>
<td>ECON 442</td>
<td>International Finance</td>
<td>3</td>
</tr>
<tr>
<td>ECON 480</td>
<td>Managerial Economics and Operations Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

BA 427, 428, 430 or 435 if not taken above.

Note: Prerequisites and program requirements may change.
Contact the Student Services Office for current information.

Business Minor
Students interested in business may seek a minor in business administration. The minor is open to degree-seeking undergraduate students with the exception of students pursuing a degree in business or accounting and other degree programs that do not recognize minors. Students entering the minor must have completed BIS 202, Computer Applications in Management. See staff in the Bloch School Student Services Office for current grade point requirements.

Students earning a minor in business administration complete 27 hours of coursework; a minimum of 15 hours must be earned at UMKC. The following courses are offered in the minor (prerequisites for each course are listed in parentheses):

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 202</td>
<td>Computer Applications in Management (required prior to entry into minor)</td>
<td>3</td>
</tr>
<tr>
<td>ACTG 210</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BA 324</td>
<td>Elements of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BA 325</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>BA 426</td>
<td>Production and Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>BDS 308</td>
<td>Introduction to Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Business Information</td>
<td>3</td>
</tr>
</tbody>
</table>

Students Wishing to Complete UMKC's 42-Credit Hour Certified General Education Core Prior to Transferring to Another Missouri Institution

See the General Undergraduate Academic Regulations and Information section of this catalog. Bloch School students wishing to complete the 42-hour core should also consult with an academic adviser in the Bloch School Student Services Office, Bloch 115.

Natural Sciences (8 hours)
You may select courses from astronomy, biology, chemistry, earth science, environmental science, geology, physical geography, physical science and physics. A laboratory component is required.

Social Sciences (6-9 hours)
Courses may be selected from anthropology, criminal justice and criminology, geography, history, political science, psychology and sociology. As part of the nine hours, and as required by state law, all students must study the United States and Missouri constitutions. B.S. in accounting students are required to complete only six hours of social sciences, including the constitution requirement.

Basic Skills (21 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTG 210</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACTG 211</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BIS 202</td>
<td>Computer Applications in Management</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Introduction to Economics I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Introduction to Economics II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 160</td>
<td>Math for Business and Soc. Sci.</td>
<td>3</td>
</tr>
</tbody>
</table>

Non-business Electives
Non-business electives should be selected to meet the necessary 60 hours for junior standing. A maximum of 2 hours of PE activity is accepted. Applied or military science and vocational courses may not be taken for elective credit. Students are encouraged to complete a fine arts course from areas like Art, Art History, Conservatory, or Theater.

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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTG 210</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACTG 211</td>
<td>Introduction to Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BIS 202</td>
<td>Computer Applications in Management</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Introduction to Economics I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Introduction to Economics II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 160</td>
<td>Math for Business and Soc. Sci.</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 210</td>
<td>Foundations of Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Written English Proficiency Test (WEPT)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Students must fulfill the general education requirements prior to entering the B.S. program. 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 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. Students must fulfill the general education requirements prior to entering the B.S. program.

Bachelor of Science in Accounting (61 hours)

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 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. Students must fulfill the general education requirements prior to entering the B.S. program.

Senior Year - First Semester

ACTG 409 Auditing 3
ACTG 408 Federal Income Taxation 3
BA 325 Financial Management 3
BMA 306 Legal, Ethical and Regulatory Environment of Business 3
BMA 405 Leadership Skills in Human Systems (BMA 305) 3
BMA 410 Environment of International Business (ECON 201) 3

Note: Students should ensure that prerequisites are taken in the proper sequence. Prerequisites and program requirements may change. Daytime and evening sequence varies. Contact the Student Services Office for current information.

Accounting Courses

210 Introduction to Financial Accounting (3). An overview of basic concepts and terminology associated with reporting financial information to parties outside of an organization. Prerequisite: Completion of 30 hours

211 Introduction to Managerial Accounting (3). An introduction to the use of cost accounting concepts and information in managing the activities of a business. Prerequisite: ACTG 210 or its equivalent

307 Cost Management (3). A study of the principles and techniques of cost accounting with emphasis on the structure of cost accounting systems and the summarizing, classifying, 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: ACTG 211 or its equivalent and Junior standing

310 Intermediate Accounting I (4). 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: ACTG 211 or its equivalent and Junior standing

311 Intermediate Accounting II (3). 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: ACTG 310 or its equivalent

350 Accounting Systems and Controls (3). 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 202, ACTG 307 and ACTG 310

405 Auditing (3). 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: ACTG 311 and ACTG 350 or equivalents

408 Federal Income Taxation (3). An examination of the theory and practice of taxation as applied to individuals and businesses. Prerequisite: ACTG 211 or its equivalent

409 Advanced Taxation (3). An examination of the theory, practice, and research methodology of taxation as applied to corporations, partnerships, estates and trusts. Prerequisite: ACTG 408 or equivalent

420 Advanced Accounting (2). A study of the accounting business combinations and the preparation of consolidated financial statements. Prerequisite: Accounting 311 or equivalent

421 Governmental/Not-for-Profit Accounting (1). An overview of accounting for state and local governments and not-for-profit entities. Pronouncements of the accounting profession are emphasized where applicable. Prerequisite: Accounting 311 or equivalent

450 Technology and the Accountant (3). 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: Accounting 350 or equivalent

497 Special Topics in Accounting (1-3). 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

Business Administration Courses

324 Elements of the Marketing Concept (3). 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. Offered: Every semester

325 Financial Management (3). A study of the relationship between business decisions and the value of the firm as determined by the marketplace. Emphasis on composition of capital structure, capital budgeting, and cost of capital theory, including incremental analysis of investment situations. Prerequisite(s): ACTG 210 Offered: Every semester

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327 International Banking Travel Seminar (1-6). Students will travel outside the United States to observe the environment and conduct of banking and financial markets in other countries. Instruction will be provided by high level banking and government officials and University faculty.

426 Production/Operations Management (3). The study and application of concepts, models, and techniques. Students are introduced 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 are studied as means of effectively managing the operations functions of both product and service organizations. Prerequisites: ECON 202, BDS 308 or equivalents and recommended prerequisite BDS 330.

427 Debt Instruments and Markets (3). An overview 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: BA 325, ECON 202

428 Commercial Bank Management (3). Financial management of the interest spreads, credit risk, liquidity and capital positions of commercial banks. Analysis of bank profitability, lending functions and policy, securities investments, investment strategies, fund attraction, regulatory examination, capital adequacy, and integrated asset/liability management. Instructional media includes cases and computerized bank management simulation. Prerequisite: BA 325, ECON 202

430 Investments Management (3). The course develops the theoretical framework necessary for a systematic approach to portfolio management. Content includes concepts of investment objectives, measurement of risk and returns, alternative uses of invested funds, analysis of securities markets, and the techniques of security analysis. The course provides an opportunity for the creation and management of an investment portfolio. Prerequisite: BA 325

435 Intermediate Financial Management (3). 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. The course includes the use of cases and computer techniques. Prerequisite: BA 325

497 Special Topics (1-6). Study and research in areas of special interest under individual faculty direction. Topics include (A) Finance, (B) Marketing, (C) Management Information Systems, (D) Quantitative Analysis, (E) Small Business Management, (H) Production and Operations Management, (I) Unspecified. Consent of instructor.

Business Decision Sciences Courses

308 Introduction to Data Analysis (3). The role of statistical analysis of data as an aid to the administrator in the decision-making function. The content of the course will include probability and random variables, organization and summary measures of data sets, estimation procedures, tests of hypotheses, analysis of variance and linear regression analysis. It is assumed that all students have had college algebra or its equivalent. Prerequisite: Math 160 or equivalent. Offered: Every semester.

330 Introduction to Management Science (3). The modeling of business decisions in operations, finance and marketing, and the analysis of models using optimization, computer simulation, and decision theory. Modeling and analysis are conducted using the medium of a computer spreadsheet. The course focuses on the use of computer tools, critical evaluation, and improvement of models, as well as written and oral communication of analysis and conclusions. Prerequisites: Math 160 or equivalent, BIS 202 and BDS 308. Offered: Every semester.

Business Information Systems Courses

202 Computer Applications in Management (3). A comprehensive coverage of computer tools for personal productivity in a management context, including spreadsheets and presentation graphics. Prerequisite: Sophomore standing Offered: Every semester.

302 Introduction to Management Information Systems (3). Concepts of information systems, systems analysis, and computer applications in organizations, techniques of systems analysis, systems designs, implementations, and information management (both technical and behavioral) are studied in the organizational context of management information needs. Fundamental concepts of systems, information, and fourth generation languages are studied as integral parts of accounting, financial, marketing, and production information systems. Prerequisite: BIS 202. Offered: Every semester.

Business Management and Administration Courses

220 Introduction to Entrepreneurship (3). The course framework focuses upon three levels of entrepreneurship: the person, the environment, and the process. Students learn about the personal skills and approaches related to many types of entrepreneurs. The environment is approached through both the role of entrepreneurship in local, national, and global economies, as well as what is necessary to support an entrepreneurial environment. The entrepreneurial process is presented through a framework of the resources and opportunities necessary to create a new venture. Class sessions include a variety of lectures, film cases, text case discussions, guest speakers, and an assessment of class exercises. This course is open to all UMKC students who have completed 30 hours of instruction. Prerequisite: Open to all UMKC Students who have completed 30 hours Offered: Course was offered as a test in Fall 2002. Intent to is offer it each Fall term.

305 Behavior in Human Systems (3). The study of individual & group behavior in human systems where organizational goals are achieved & individual needs are satisfied. Diagnostic & observational skills will be emphasized. Simulations, exercises, field study, cases, and lectures will be utilized where appropriate. Offered: Every semester.

306 Legal, Ethical and Regulatory Environment of Business (3). Consideration of legal and moral thought with attention to ethical issues in business; introduction to our common law system; study of selected areas of law with attention to the impact of law on organizational practice. Offered: Every semester.

320 Law of Commercial Transactions (3). Study of major areas of law included in the Uniform Commercial Code. Areas of study may include sales, commercial paper, bank deposits and collections, aspects of property law, documents of title, investment securities, and secured transactions. Prerequisite: BMA 306.

327 International Independent Study in Business (3-6). The particular content of this course will be determined by the student in conjunction with the Bloch School faculty. The course can include individual or group research projects conducted outside the U.S.A.; international internships; organized travel-study seminars; etc. This course cannot be used by students desiring to conduct international business study or research from within the U.S.A. Offered: Summers.

360 Human Resource Management (3). Overview of the major functions of human resources, including equal employment opportunity, affirmative action, assessing and maximizing the job-person match, managing performance, recruitment, selection and staffing, employee development, compensation, incentives and benefits administration, work design and labor unions. Emphasis will be placed on legal issues, ethical implications and practical applications related to organizational strategy and effectiveness. Prerequisite: None. Offered: Winter, summer and fall.

405 Leadership Skills in Human Systems (3). Continuation of the study of behavior in human systems with emphasis on leadership and skills of effective action. The course is focused on the activities and interactions of leaders and followers which contribute to the achievement of organizational goals and the satisfaction of individual personal and social needs. Among issues addressed are leadership processes, authority, cooperation, communication, ethical behavior. Simulations, exercises, field study, cases and lectures will be utilized when appropriate. Prerequisite(s): BMA 305 or consent of Instructor. Offered: Every Semester.

410 Environment of International Business (3). This course provides an essential introduction to the environment of international business. Particular attention is given to the historical development, cultural, economic, legal, and political context for the conduct of international business. Other topics include foreign exchange, trade finance, multilateral agreements, and the influence of government on trade. Prerequisites: ECON 201. Offered: Every semester.

471 Strategic Management (3). 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: BA 324, BA 325, BMA 305, BA 426 or concurrent enrollment. Offered every semester.

491 Small Business Management Practicum (3). Advanced study and practice in actual case situations. Students will work as teams in a number of business cases requiring the identification of problems, the proposal of solutions and the responsibility for implementing those solutions where practicable in area business fms. Prerequisite: Advanced senior standing. Offered: Each term.

497 Special Topics (1-6). Study and research in areas of special interest under individual faculty direction. Topics include (A) International, (B) Human Resources, (C) Law, (D) Organizational Behavior, (E) Strategic Management, (F) Entrepreneurship and (G) Unspecified. Prerequisites: Senior Standing and pre-registration consent of instructor.
497B Special Topics: Human Resources (1-6). Study and research in areas of special interest under individual faculty direction. Prerequisites: Senior Standing and pre-registration consent of instructor.

497C Special Topics: Law (1-6). Study and research in areas of special interest under individual faculty direction. Prerequisites: Senior Standing and pre-registration consent of instructor.

497D Special Topics: Organizational Behavior (1-6). Study and research in areas of special interest under individual faculty direction. Prerequisites: Senior Standing and pre-registration consent of instructor.

497E Special Topics: Strategic Management (1-6). Study and research in areas of special interest under individual faculty direction. Prerequisites: Senior Standing and pre-registration consent of instructor.

497F Special Topics: Entrepreneurship (1-6). Study and research in areas of special interest under individual faculty direction. Prerequisites: Senior Standing and pre-registration consent of instructor.

Health Administration Courses

465 Contemporary Issues in Urban Public Health (3). 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.

Public Administration Courses

310 Introduction to Public Administration (3). 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.

410 Research Methods in Public Administration (3). 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.

448 Leadership for Public Service (3). 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.

455 Non-Profit Leadership Issues (1). 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.

455A Non-Profit Leadership Issues: Building & Renewing Nonprofit Boards (1).

455B Non-Profit Leadership Issues: Board-Staff Relations (1).

455C Non-Profit Leadership Issues: Power of Diversity in Nonprofit Orgs (1).

455D Non-Profit Leadership Issues (1).

495 Voluntarism, Philanthropy & the Non-Profit Sector in the U.S. (3). 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.

497 Special Topics in Public Administration (1-3). Study and research in areas of special interest under individual faculty direction. Prerequisite: Senior standing and pre-registration consent of instructor.

497B Special Topics in Public Administration (1-3).
School of Computing and Engineering

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Interim Dean:
Khosrow Sohraby

Division of Civil and Mechanical Engineering:
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History
The University has offered engineering degree coursework since 1956, and has been ABET accredited since 1977. Increased technology demands during the mid-80s combined with a generous gift from Sprint, lead to the development of UMKCs high-tech computer science and telecommunications program. These disciplines were combined in 2001 to form the School of Computing and Engineering (SCE).

Mission
The mission of the School is to provide nationally competitive educational opportunities and focused research in Computing and Engineering generating the technical work force and conducting the research needed to drive the economic development of the region, including entrepreneurial activities.

Divisions and Degree Programs
The School of Computing and Engineering (SCE) has two divisions, the Division of Civil and Mechanical Engineering and the Division of Computer Science and Electrical Engineering. Each division offers undergraduate and graduate degrees. The engineering degrees in civil, electrical and mechanical engineering are fully accredited by ABET (Accreditation Board for Engineering and Technology, Inc.). For advising, please refer to the SCE division sections in the catalog.

The School also participates in UMKC’s Interdisciplinary Ph.D. program through four disciplines. Students interested in pursuing a doctoral degree in civil, electrical or mechanical engineering may select engineering as a discipline. Students interested in computer sciences may select computer networking, software architecture or telecommunications networking as a discipline. (See the School of Graduate Studies section of this catalog for details about the Interdisciplinary Ph.D. program.)

SCE Undergraduate Scholarships
Several undergraduate scholarships are available exclusively for SCE students through the SCE Scholarship Office. Applications are due by January 31 for fall semester awarding. To be considered a full-time student, you must be enrolled in a minimum of twelve (12) credit hours. For an updated list of scholarships and application information, please see the SCE Scholarship Web page at www.sce.umkc.edu/scholarships. A complete list of other scholarships and financial aid is available on the Financial Aid web page at http://www.sfa.umkc.edu/. Some of the more prominent scholarships are listed below:

James E. Allen Memorial Scholarship
Freshman Qualifications: Top 10% of high school class or ACT composite score of 23 or above. Student must be planning to major in civil or mechanical engineering. Award based on financial need. Transfer Student Qualifications: Transferring from any community college; must have completed 60 credit hours by the time the award is tenable; 3.0 cumulative GPA in all college work attempted. Must enroll full-time at UMKC and be enrolled in a minimum of two engineering courses. Student must be civil or mechanical engineering major. Award based on financial need.

John and Phyllis Anderson Scholarship
Full-time engineering freshman; upper 10% of a Missouri or Kansas high school graduating class.

Computing & Engineering Alumni Scholarship
Full-time engineering/computer science/information technology freshman in the top 10% of high school graduating class, or a non-freshman with a minimum cumulative 3.0 GPA.

Robert C. Harmon Scholarship Fund
Entering engineering freshmen who have resided in Missouri for two or more consecutive years at the time of application; enrolled full-time must possess a demonstrated ability for the sciences; minimum high school GPA of 3.0; several awards available yearly.

Richard Hetherington Scholarship
Entering full-time computer science/information technology freshman with an ACT score of 28 or higher, or a continuing full-time freshman in the top 10% of high school graduating class. Application; 3.0 minimum GPA; demonstrated active interest in Information Products, Inc. Scholarship Fund
May be renewed. Awards are to be granted only to outstanding engineering students (with a minimum 3.0 GPA) who are United States or Canadian citizens. Emphasis is to be placed upon student’s financial need, intellectual capacity, breadth of interest and leadership qualities. However, selection consideration may also be given to top quality students without financial need. May be renewed.

Honeywell Inc. Scholarship
Awards are to be granted only to outstanding engineering students (with a minimum 3.0 GPA) who are United States or Canadian citizens. Emphasis is to be placed upon student’s financial need, intellectual capacity, breadth of interest and leadership qualities. However, selection consideration may also be given to top quality students without financial need. May be renewed.

Robert C. Harmon Scholarship Fund
Entering full-time computer science/information technology freshman with an ACT score of 28 or higher, or a continuing full-time Computer Science/Information Technology degree seeking student with a cumulative GPA of 3.2 or better.

Honeywell Inc. Scholarship
Awards are to be granted only to outstanding engineering students (with a minimum 3.0 GPA) who are United States or Canadian citizens. Emphasis is to be placed upon student’s financial need, intellectual capacity, breadth of interest and leadership qualities. However, selection consideration may also be given to top quality students without financial need. May be renewed.

Information Products, Inc. Scholarship Fund
Full-time sophomore (or above) electrical engineering major residing in Missouri for at least two years at time of application; 3.0 minimum GPA; demonstrated active interest in student professional organizations.

KC Metro Chapter APWA Scholarship
Preference will be given to those not otherwise eligible for assistance. Open to any full-time civil engineering junior or senior enrolled at UMKC. Must have a minimum cumulative GPA or 2.5 and must have completed 60 credit hours with a junior standing in their declared degree. Transfer students must have applied and been accepted to UMKC. International Students are eligible to apply.
Kansas City Power & Light Scholarship
Full-time engineering student, eligible for admission and acceptance at UMKC. ACT score of 28 or higher and top 10% of high school class. In the event a prospective candidate does not have an ACT score of 28 or higher, the class standing of valedictorian or salutatorian with letters of strong endorsement from a high school math and science teacher will be required.

Kristin J. Loeffelholz Memorial Engineering Scholarship
Junior or senior engineering student from Missouri, Kansas or Iowa; employed a minimum of 20 hours per week with a 2.5 minimum GPA; active in student engineering activities.

Forrest & Joan Lowe Scholarship
Mechanical engineering full-time sophomore or higher who is a naturalized citizen and resident of Missouri with a minimum 3.0 GPA.

Milbank Manufacturing Co. Scholarship
Full-time engineering student, sophomore-level or above; minimum 3.0 GPA. Recipient must have graduated from a Kansas City metropolitan area high school and maintain residence in the Kansas City metro area. Summer internship option included with scholarship. Scholarship will renew through graduation provided recipient maintains eligibility.

Yolande & Stanley Niu Scholarship
Engineering freshman with an ACT score of 27 or higher, or upper level engineering student with a 3.0 minimum GPA.

Mary Louis Rankin Memorial Scholarship
Full-time computer science/information technology undergraduate student with a minimum of 3.0 GPA, or entering freshman with a minimum high school GPA of 3.0.

SCE Faculty/Staff Scholarship
Full-time undergraduate computer science/engineering/information technology degree-seeking student accepted at UMKC with a minimum 3.0 cumulative GPA or above; a graduate of a Kansas or Missouri high school or a minimum of four years legal residency in Kansas or Missouri at time of application.

Martin Ashton Swinney Memorial Scholarship
Full-time undergraduate SCE student, preference given but not restricted to an electrical engineering student. Any level student considered. Freshman with ACT score of 25; or sophomore, junior, senior with a minimum GPA of 2.8 is eligible. Must have graduated from a Missouri high school or be a Missouri resident for a minimum of two years with a GED.

Western Chapter of Missouri Society of Professional Engineers Auxiliary Endowment Scholarship
Full-time engineering sophomore (or above); minimum cumulative GPA of 3.0.
Division of Civil and Mechanical Engineering

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University of Missouri-Kansas City
Civil and Mechanical Engineering Division
352 Flarsheim Hall
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Division Head:
Bryan R. Becker

Professors:
Bryan R. Becker (Division Head and Director of Mechanical Engineering), Martha Gilliland (Chancellor), Anil Misra (Director of Civil Engineering)

Associate Professors:
J. Kenneth Blundell, Mark F. McClernon, Deborah J. O’Bannon, Jerry R. Richardson

Assistant Professors:
Brian A. Fricke, Trent M. Guess, Ganesh Thiagarajan

Visiting Associate Professors:
Forrest G. Lowe, Ben-Zion Rosenblum

Affiliate Faculty:
J. David Eick, Ph.D. (Curators’ Professor, School of Dentistry), J. Lawrence Katz (Professor, School of Dentistry), Paulette Spencer (Professor, School of Dentistry)

Adjunct Faculty:
Bob Hanlin, Dan Justice, Jim Mahoney

Professors Emeriti:
C. Quinton Bowles, George F.W. Hauck, Rudolph L. Leutzinger, Sr., Donald R. Smith, William E. Stewart, Jr.

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, water resources; structural engineering; and transportation/traffic engineering.

Program Description

The program offers the bachelors degree and the masters degree in civil engineering and participates in the UMKC Interdisciplinary Ph.D. program. The Bachelor of Science in Civil Engineering is accredited by the Accreditation Board for Engineering and Technology (ABET). 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 masters 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.

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.

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; hydraulics, hydrology, water resources; structural engineering; and transportation/traffic engineering. To accommodate part-time and working students, most of the undergraduate classes are conducted in the afternoons.

Educational Objectives

The educational objectives of the Civil Engineering Bachelor of Science program are to prepare students to enter the profession of Civil Engineering, to prepare students for graduate study and to prepare students to engage in life-long learning.

To meet these objectives, the program aims to inculcate within the graduates the following attributes:

- The ability to apply knowledge of mathematics and science.
- The ability to collect, analyze and interpret data.
- The ability to design a system, component or process to meet desired needs.
- The ability to function on teams.
- The ability to identify, formulate and solve civil engineering problems using techniques, skills and modern tools necessary for civil engineering practice.
- The understanding of professional and ethical responsibilities, particularly the ASCE code of ethic’s fundamental principles and canons.
- The ability to communicate effectively.
- A breadth and depth in their general education as well as their technical education.
Admission

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 22; 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 to the Civil and Mechanical Engineering Division as an undeclared major. The student may apply for acceptance into the civil engineering discipline after completing 24 semester credit hours of the required coursework.

High school students planning to apply to the civil 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 division.

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 by the division is required. GPAs are computed using only transferable coursework applicable toward the civil engineering degree. Coursework satisfactorily completed at other universities or colleges is transferable as applicable, taking into consideration the C- prerequisite rule (see below). 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. GPAs are computed using only transferable coursework applicable towards the civil engineering degree.

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 Division office. Additional information regarding scholarships may also be obtained from the Division office.

Advising and Registration
The civil engineering program assigns a faculty member to be the students academic adviser throughout the duration of their study. 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 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 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) and the Society of Women Engineers (SWE). 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.

Undergraduate Curriculum Requirements
The civil engineering curriculum requires a minimum of 126 hours of coursework and satisfies the UMKC General Education Matrix.

Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MATH 210(a)</td>
<td>4</td>
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<tr>
<td>CHEM 211</td>
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<tr>
<td>ME 130</td>
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<td>CE 111</td>
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<td><strong>Total Hours</strong></td>
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<thead>
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<th>Winter Semester</th>
<th>Hours</th>
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<tr>
<td>MATH 220</td>
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<tr>
<td>PHYS 240</td>
<td>5</td>
</tr>
<tr>
<td>COMS 110</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 225(b)</td>
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Sophomore Year

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<th>Hours</th>
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<tbody>
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<tr>
<td>PHYS 250</td>
<td>5</td>
</tr>
<tr>
<td>CE 275</td>
<td>3</td>
</tr>
<tr>
<td>ECE 216</td>
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</tr>
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<table>
<thead>
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<th>Hours</th>
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<tr>
<td>ME 299</td>
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<tr>
<td>ME 285</td>
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Junior Year

<table>
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<th>Hours</th>
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<tbody>
<tr>
<td>CE 311</td>
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</tr>
<tr>
<td>CE 319</td>
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<td>CE 321</td>
<td>4</td>
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<td>CE 335</td>
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<td>CE 351</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>
A student participating in the honors program may dual-enroll in the General Undergraduate Academic Regulations and General Education Core Curriculum Prior to Transferring the specific details. Missouri institution typically would be required to complete Students transferring into Civil Engineering with a Certified 42-Hour General Education Core Curriculum for Transfer. Students Transferring from Other Missouri Institutions. General Education Curriculum for Transfer Students. Engineering Honors Program. A student participating in the honors program may dual-enroll in the Graduate School, during the student's last two semesters prior to graduation, for up to 6 hours of technical electives at the 400-level or above. These technical electives will apply toward the Master of Science degree at UMKC. To receive this graduate credit, the student must have enrolled in CE 499 and dual-enrolled in the Graduate program. Special Academic Regulations

“C-” Prerequisite Rule

A grade of at least “C-” 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 students 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 Division Office. To receive transfer credit for courses taken at another institution after admission to Civil Engineering, the student must file a petition in the Division 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 standing statements found at the top of semester grade reports 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.

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- Now In Good Standing - Term and cumulative GPA greater than 2.0.
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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 Division.

<table>
<thead>
<tr>
<th>Winter Semester</th>
<th>Hours</th>
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<tr>
<td>CE 378WI(e)</td>
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<tr>
<td>CE 323</td>
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<td>CE 342</td>
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<td>CE 355</td>
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<tr>
<th>Senior Year</th>
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<td>CE 422</td>
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<tr>
<td>CE Electives(d)</td>
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<tr>
<td>CE 481</td>
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<tr>
<td>CE 411WI(c)</td>
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<tbody>
<tr>
<td>CE 412WI(c)</td>
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<tr>
<td>CE Electives(d)</td>
<td>9</td>
</tr>
<tr>
<td>General Education(e)</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>15</td>
</tr>
</tbody>
</table>

(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 ENG 110.
(c) Written English Proficiency Test (WEPT) required before enrollment. Contact English Department for details.
(d) CE Electives are engineering courses offered in the 3XX level or above, or courses approved by the department.
(e) English, ComStudies, Philosophy or Foreign Language.

Students Transferring from Other Missouri Institutions with a Certified 42-Hour General Education Core Curriculum

Students transferring into Civil Engineering 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.

Students Wishing to Complete UMKCs Certified 42-Hour General Education Core Curriculum Prior to Transferring to Another Missouri Institution

See the General Undergraduate Academic Regulations and Information section of this catalog. Civil Engineering students wishing to complete the 42-hour core should also consult with an academic adviser by contacting the Division Office at (816) 235-5550.

Engineering Honors Program

A senior year honors program is also available for all engineering students with at least a 3.0 cumulative grade-point average. The CE department specifies the following requirements:

1. The student should begin the CE 499 project at least two semesters before graduation.
2. The student must complete 3 credit hours of CE 499 and report this activity in an undergraduate honors thesis. The CE faculty member who directed the project as well as a second reader must approve this thesis.
3. A copy of the approved undergraduate thesis shall be given to the CE Honors Committee for its approval, binding and retention.

A student participating in the honors program may dual-enroll in the Graduate School, during the student’s last two semesters prior to graduation, for up to 6 hours of technical electives at the 400-level or above. These technical electives will apply toward the Master of Science degree at UMKC. To receive this graduate credit, the student must have enrolled in CE 499 and dual-enrolled in the Graduate program.

Special Academic Regulations

“C-” Prerequisite Rule

A grade of at least “C-” 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 students 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 Division Office. To receive transfer credit for courses taken at another institution after admission to Civil Engineering, the student must file a petition in the Division 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:

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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 Division.
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, winter 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 students 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 students 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.

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 students future success. Accordingly, any appeal should include causes for the students 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 doctors statement for medical reasons or a written employers statement for work reasons. If work is given as the reason for part-time enrollment, the following guidelines shall apply:

<table>
<thead>
<tr>
<th>Work Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>40+</td>
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<td>30+</td>
<td>6</td>
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<td>20+</td>
<td>9</td>
</tr>
<tr>
<td>0-19</td>
<td>12</td>
</tr>
</tbody>
</table>

Application for Graduation
Students should apply for graduation when they register for their final semesters 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 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. In addition, 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) 235-1160 and may be taken any time after the student has completed a total of 80 credit hours from any institution. The objective of this test is to assess the effectiveness of university course work and the score is not part of the students permanent record.

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.

Program Description
The program offers the bachelors degree and the masters degree in mechanical engineering and participates in the UMKC Interdisciplinary Ph.D. program. The Bachelor of Science in Mechanical Engineering is accredited by the Accreditation Board for Engineering and Technology (ABET). 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 masters program in mechanical engineering was started in 1964 and later the undergraduate program was added in the early 1970’s. 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.

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.
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 of the areas of the profession. To accommodate part-time and working students, most of the undergraduate classes are conducted in the afternoons.

Educational Objectives

The goal of the Mechanical Engineering Bachelor of Science program is to prepare students to enter the profession of Mechanical Engineering, to prepare students for graduate study, and to prepare students to engage in life-long learning.

To meet this goal, the specific objectives of the program include:

- Breadth and depth in general education as well as technical education.
- Ability to effectively communicate and function in teams.
- Understanding of professional and ethical responsibility.
- Ability to identify, formulate and solve problems using the techniques, skills, mathematics, and computer tools necessary for modern Mechanical Engineering practice.

Admission

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 22; 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 to the Civil and Mechanical Engineering Division as an undeclared major. The student may apply for acceptance into the mechanical engineering discipline after completing 24 semester credit hours of the required coursework.

High school students planning to apply to the 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 division.

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 2.0 at each institution attended. Otherwise, a formal review by the division is required. GPAs are computed using only transferable coursework applicable toward the mechanical engineering degree. Coursework satisfactorily completed at other universities or colleges is transferable as applicable, taking into consideration the C-prerequisite rule (see below). 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. GPAs are computed using only transferable coursework applicable toward the mechanical engineering degree.

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 Division office. Additional information regarding scholarships may also be obtained from the Division office.

Advising and Registration

The mechanical engineering program assigns a faculty member to be the students academic adviser throughout the duration of their study. 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 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 Activities

Students enjoy many group activities outside the classroom. They participate in regional and national competitions, design and build a baja buggy, and participate in numerous 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, including student chapters of the American Society of Mechanical Engineers (ASME), the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), the Society of Automotive Engineers (SAE), the International Society of Pharmaceutical Engineers (ISPE), the Missouri Society of Professional Engineers (MSPE), the National Society of Black Engineers (NSBE), and the Society of Women Engineers (SWE). In these organizations, students have an opportunity to develop their career through association with other mechanical engineering students, the faculty, and active members of the profession. These chapters hold monthly meetings, field trips and other activities such as competing in the baja buggy competition. 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 and Pi Tau Sigma is for mechanical engineering majors.

Undergraduate Curriculum Requirements

The mechanical engineering curriculum requires a minimum of 126 hours of coursework and satisfies the UMKC General Education Matrix.

Freshman Year

<table>
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<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<td></td>
<td>ME 130</td>
<td>Engineering Graphics</td>
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<td>MATH 220</td>
<td>Calculus II</td>
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<td>PHYS 240</td>
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<td></td>
<td>ENGL 225(b)</td>
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<td>Total Hours</td>
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Sophomore Year

Fall Semester
- MATH 250 Calculus III 4
- PHYS 250 Engineering Physics II 5
- CE 275 Engineering Statics 3
- ECE 216 Engineering Computation 3
- ME 211 The Engineering Enterprise 3

Total Hours 18

Winter Semester
- MATH 345 Ordinary Differential Equations 4
- CE 276 Strength of Materials 3
- ECE 291 Circuit Theory I 3
- ME 299 Engineering Thermodynamics 3
- ME 285 Engineering Dynamics 3

Total Hours 16

Junior Year

Fall Semester
- ME 311 The Technical Entrepreneur 3
- ME 319 Engr. Statistics and Computation 3
- ME 324 Engineering Materials 4
- ME 351 Fluid Mechanics 3
- ME 352 Inst. and Meas. Lab I 3
- ME 360 Thermal System Design 3

Total Hours 19

Winter Semester
- ME 306 Computer-Aided Engineering 3
- ME 362 Inst. and Meas. Lab II 3
- ME 380 Manufacturing Methods 3
- ME 385 System Dynamics 3
- ME 399 Heat and Mass Transfer 3

Total Hours 15

Senior Year

Fall Semester
- ME 415 Feedback Control Systems 3
- ME 456W(c) Mech. Component Design 3
- ME Electives(d) 6
- Constitution Req: PolSc 210/Hist 101/102 3

Total Hours 15

Winter Semester
- ME 496W(c) Mechanical Design Synthesis 4
- ME Energy Systems Design Elective(e) 3
- ME Elective(d) 3
- General Education(f) 3

Total Hours 13

(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) ME Electives are engineering courses offered in the 3XX level or above, or courses approved by the department.
(e) ME 440 Heating and Air Conditioning or ME 451 Power Plant Design.
(f) English, ComStudies, Philosophy or Foreign Language.

General Education Curriculum for Transfer Students

Students Transferring from Other Missouri Institutions with a Certified 42-Hour General Education Core Curriculum

Students transferring into Mechanical Engineering 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.

Students Wishing to Complete UMKCs Certified 42-Hour General Education Core Curriculum Prior to Transferring to Another Missouri Institution

See the General Undergraduate Academic Regulations and Information section of this catalog. Mechanical Engineering students wishing to complete the 42-hour core should also consult with an academic adviser by contacting the Division Office at (816) 235-5550.

Engineering Honors Program

A senior year honors program is also available for all engineering students with at least a 3.0 cumulative grade-point average. The ME department specifies the following requirements:

1. The student should begin the ME 450 project at least two semesters before graduation.
2. The student must complete 1 to 6 credit hours of ME 450 and report this activity in an undergraduate honors thesis. The ME faculty member who directed the project as well as a second reader must approve this thesis.
3. A copy of the approved undergraduate thesis shall be given to the ME Honors Committee for its approval, binding and retention.

A student participating in the honors program may dual-enroll in the Graduate School, during the student’s last two semesters prior to graduation, for up to 6 hours of technical electives at the 400-level or above. These technical electives will apply toward the Master of Science degree at UMKC. To receive this graduate credit, the student must be both enrolled in ME 450 and dual-enrolled in the Graduate program.

Special Academic Regulations

“C-” Prerequisite Rule

A grade of at least “C-” 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 students 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

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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.
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- **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 Division.

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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 students 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 students 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.

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 students future success. Accordingly, any appeal should include causes for the students 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.

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<td>9</td>
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</table>

Application for Graduation
Students should apply for graduation when they register for their final semesters 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. In addition, 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 (235.1160) and may be taken any time after the student has completed a total of 80 credit hours from any institution. The objective of this test is to assess the effectiveness of university course work and the score is not part of the students permanent record.

Civil Engineering Courses

**111 Essential Engineering (3)**. 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 ME 111)

**211 The Engineering Enterprise (3)**. 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 ME 211.) Prerequisite: None

**219 Computer Programming for Engineers (3)**. 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 ME219) Prerequisite: Math 210 Restrictions: None

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites/Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>342</td>
<td>Fluid Mechanics</td>
<td>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: CE 276</td>
</tr>
<tr>
<td>411WI</td>
<td>Civil Engineering Systems Design I (2)</td>
<td>Comprehensive and realistic design project using the systems approach. Design choices and their effect upon the environment. Design constraints include constructability, minimization of environmental impact, and cost-effectiveness. Managerial and professional aspects of design practice. Prerequisite: CE 321</td>
</tr>
<tr>
<td>421</td>
<td>Matrix Methods of Structural Analysis (3)</td>
<td>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: CE 321</td>
</tr>
<tr>
<td>422</td>
<td>Reinforced Concrete Design (3)</td>
<td>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: CE 321</td>
</tr>
<tr>
<td>423</td>
<td>Advanced Structural Steel Design (3)</td>
<td>Design of steel structures and bridges. Topics include composite beams, plate girder design, and moment resistant connections. Prerequisite: CE 323</td>
</tr>
<tr>
<td>351</td>
<td>Structural Analysis I (4)</td>
<td>Study of current and new technical methods. Prerequisite: CE 321</td>
</tr>
<tr>
<td>355</td>
<td>Water Resource Engineering (5)</td>
<td>Design and analysis of water resource infrastructure. Applied surface water hydrology, analysis of pipeline systems, design of pumping plants and power generation, caviation, water hammer, valves operations, open channel flow in rigid channels, gradually varied and rapidly varied flow. Prerequisites: CE 319, CE 351</td>
</tr>
<tr>
<td>351</td>
<td>Fluid Mechanics (3)</td>
<td>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. Through treatment of pipe flow. Prerequisites: MAE 285 concurrently. Same as Mechanical 251.</td>
</tr>
<tr>
<td>355</td>
<td>Water Resource Engineering (5)</td>
<td>Design and analysis of water resource infrastructure. Applied surface water hydrology, analysis of pipeline systems, design of pumping plants and power generation, caviation, water hammer, valves operations, open channel flow in rigid channels, gradually varied and rapidly varied flow. Prerequisites: CE 319, CE 351</td>
</tr>
<tr>
<td>380WI</td>
<td>Civil Engineering Materials (3)</td>
<td>Composition, structure, properties, behavior and selection of civil engineering materials. Prerequisite: CE 276</td>
</tr>
<tr>
<td>390</td>
<td>Engineering Coop/Internship (0)</td>
<td>Students may participate in structured Engineering Coop/ Internship under the supervision of employer. They must carry out significant professional responsibilities and whatever additional assignments are determined by the employer. Prerequisite: Junior level or above or consent of instructor.</td>
</tr>
<tr>
<td>400</td>
<td>Problems (1-4)</td>
<td>Directed investigation of civil engineering problems. Prerequisite: Senior standing.</td>
</tr>
<tr>
<td>401I</td>
<td>Topics in Civil Engineering (1-3)</td>
<td>Study of current and new developments in civil engineering.</td>
</tr>
<tr>
<td>411WI</td>
<td>Civil Engineering Systems Design I (2)</td>
<td>Comprehensive and realistic design project using the systems approach. Design choices and their effect upon the environment. Design constraints include constructability, minimization of environmental impact, and cost-effectiveness. Managerial and professional aspects of design practice. Prerequisite: CE 321</td>
</tr>
<tr>
<td>412WI</td>
<td>Civil Engineering Systems Design II (3)</td>
<td>Continuation of CE 411WI. Prerequisite: Senior Standing Restrictions: None</td>
</tr>
<tr>
<td>432</td>
<td>Foundation Engineering (3)</td>
<td>Design of basic foundation structures, footings, retaining walls, pile foundations, dams. Prerequisite: CE 335</td>
</tr>
<tr>
<td>433</td>
<td>Hazardous Waste Management (3)</td>
<td>Engineering principles involved in handling, collection, transportation, processing and disposal of hazardous wastes, waste minimization, legislation on hazardous wastes and groundwater contamination. Prerequisite: Junior standing.</td>
</tr>
<tr>
<td>444</td>
<td>Unit Process Laboratory (3)</td>
<td>Chemical and physical relationships as applied to unit processes of water and wastewater. Prerequisite: CE 342.</td>
</tr>
<tr>
<td>445</td>
<td>Environmental Engineering Microbiology (3)</td>
<td>Theory and application of fundamental principles of microbiology, ecology, and aquatic biology of the micro-organisms of importance to sanitary engineers. Prerequisite: Senior standing.</td>
</tr>
<tr>
<td>448</td>
<td>Environmental Public Policy (3)</td>
<td>Engineering and economic aspects of environmental policy. Basic understanding of environmental statutes and case law.</td>
</tr>
<tr>
<td>452</td>
<td>Hydraulics of Open Channels (3)</td>
<td>Gradually varied flow and theory of the hydraulic jump. Slowly varied flow involving storage; rating curves. Prerequisite: CE 351</td>
</tr>
<tr>
<td>453</td>
<td>Hydraulics and Variability of Rivers (3)</td>
<td>Introduction to the concepts of alluvial channel behavior, evolution and change due to natural and man-induced modifications to streams and rivers. Prerequisite: CE 355</td>
</tr>
<tr>
<td>455</td>
<td>Highways, Hydraulics &amp; Sediment Transport (3)</td>
<td>Hydraulics of bridge encroachments, fundamentals of fluvial geomorphology, sediment transport, alluvial channel flow, sediment transport modeling, case studies of alluvial problems and bridges. Prerequisite: CE 355</td>
</tr>
<tr>
<td>465</td>
<td>Engineering Administration (3)</td>
<td>Cash flow analysis, financial analysis, managerial accounting and cost control, budgeting, organizational structure and behavior. Prerequisite: Junior standing.</td>
</tr>
<tr>
<td>474</td>
<td>River Stability and Scour (3)</td>
<td>Bridge hydraulics, stream stability, scour at bridge piers and abutments, hydraulic modeling of floods, countermeasures for protection of bridge infrastructure. Prerequisite: CE 355</td>
</tr>
<tr>
<td>485</td>
<td>Construction Planning and Scheduling (3)</td>
<td>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: senior standing.</td>
</tr>
<tr>
<td>499</td>
<td>Honors Research (2-3)</td>
<td>Independent investigation to be presented as an undergraduate honors thesis. Prerequisite: Honors status in civil engineering.</td>
</tr>
</tbody>
</table>

Division of Civil and Mechanical Engineering
Mechanical Engineering Courses

111 Essential Engineering (3). 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 CE 111). Prerequisite: None Restrictions: None


211 The Engineering Enterprise (3). 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 CE 211). Prerequisite: None Restrictions: None

219 Computer Programming for Engineers (3). 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 CE 219) Prerequisite: Math 210 Restrictions: None

285 Engineering Dynamics (3). Basic fundamentals of particle and rigid body dynamics; energy and momentum methods; computer use. Prerequisite: CE 275.

299 Engineering Thermodynamics I (3). Fluid properties, work and heat, first law, second law, entropy, applications to vapor and ideal gas processes. Prerequisites: Physics 240 and Math 220.

301 Topics in Mechanical Engineering (3). Current and new technical developments in mechanical engineering. Prerequisite: instructor’s consent.

301M Topics in Mechanical Engineering (3). Current and new technical developments in mechanical engineering. Prerequisite: instructor’s consent.


311 The Technical Entrepreneur (3). 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 CE 311). Prerequisite: None Restrictions: None

319 Engineering Computation And Statistics (3). Statistical distribution functions and application to engineering problems. Limited treatment of curve-fitting and time-series analysis. Structured programming in Matlab. (Same as CE 319) Prerequisite: Math 220, ECE 216 Restrictions: None

324 Engineering Materials (3). The nature of the structure of engineering materials. The relationship of material structure to the physical properties. Mechanical behavior of engineering materials. Prerequisites: ME 299, CE 276 and CHEM 211.

351 Thermofluid Mechanics (3). 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. Through treatment of pipe flow. Prerequisites: ME 285 and ME 299 concurrently. Same as CE 351.

352 Instrumentation & Measurements Lab I (2.5). 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: ME 285, CE 276, MATH 345, and ECE 276 or concurrently.

360 Thermal System Design (3). 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: ME 299, Math 250; Co-requisite: ME 351

362 Instrumentation & Measurements Lab II (2.5). Continuation of 352 with emphasis on instruments to measure temperature, pressure, fluid flow, fluid velocity, sound, spectral content and emissions. Prerequisites: ME 351 and ME 352. Corequisite: ME 399.

380 Manufacturing Methods (3). 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: ME 328.


390 Engineering Coop/Internship (0). Students may participate in structured Engineering Coop/ Internship under the supervision of employer. They must carry out significant professional responsibilities and whatever additional assignments are determined by the employer. Prerequisite: Junior level or above or consent of instructor.


400 Problems (1-6). Special design, experimental and analytical problems in mechanical engineering.

401 Topics in Mechanical Engineering (1-3). Current and new technical developments in mechanical engineering. Prerequisite: instructor’s consent.

414 Material Science for Advanced Applications (3). Study of the physical and mechanical metallurgy of alloy systems of interest in engineering applications. Prerequisite: ME 324.

415 Feedback Control Systems (3). Introduction to feedback control theory for linear dynamic systems. Topics include root locus analysis, frequency response analysis, and controller design. Prerequisites: Math 345 and ME 385. Offered: Winter.

424 Non-Metallic Engineering Materials (3). Structures, properties and applications of ceramics, glasses, cermets, polymers and composite materials. Prerequisite: ME 324.

431 Experimental Methods in Fluid Flow & Heat Transfer (3). Laboratory experiments involving fundamental mechanisms and phenomena associated with fluid flow and heat transfer. Current experimental methods and techniques employed. Prerequisites: ME 362 and ME 399.

434 Diffraction Methods in Materials Science (3). Introduction to crystal structure and the use of x-rays and neutrons to study materials aspects including phase analysis, structure determination, residual stress and texture. Prerequisite: instructor’s consent.

440 Heating and Air Conditioning (3). 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: ME 360 and ME 399.

441 Intermediate Fluid Mechanics (3). Topics in potential and viscous flow theory, and computational fluid dynamics. Prerequisite: ME 351.

444 Composite Materials (3). A survey of composite materials used in engineering, emphasizing fiber-reinforced composites as well as laminate and particulate composites. Prerequisite: ME 324.

450 Honors Research (1-6). Independent investigation to be presented as an under-graduate honors thesis. Prerequisite: Honors student in Mechanical Engineering.

451 Power Plant Design (3). 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: ME 360 and ME 399.

452 Advanced Mechanics of Materials (3). Analysis of more complicated problems in stresses and strains. Prerequisite: CE 276. (Same as CE 472).

453 Experimental Stress Analysis (3). Photoelastic, electric strain gage, brittle lacquer methods of experimental stress analysis for static loads. Strain gage work includes strain rosettes. Prerequisite: CE 276.

455 Digital Control of Mechanical Systems (3). Introduction to digital control systems. Topics include Z-transforms, sampling, stability analysis, and digital controller design. Prerequisites: ME 415 and MATH 345.

456WI Mechanical Component Design (3). Introduction to mechanical engineering design and its impact on human history, principles of design with ductile and brittle materials for static and dynamic loading, classical and reliability-based factors of safety, fracture mechanics in design, application to the design of selected machine components. Prerequisites: ME 130, ME 285, and ME 324. Restrictions: None

457 Mechatronic Systems Design (3). 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: ME 415, or instructor’s consent.

458 Automatic Control of Mechanical Systems (3). Controller design for multiple-input/multiple-output systems; controllability and observability; stochastic control problems; regulators and tracking controllers; observers. Prerequisite: ME 415.

466 Applied Mechanical Optimization (3). Introduction to mathematical programming techniques and applications to the design of mechanical systems and components. Prerequisites: ME 306.
476 Machine Tool Design (3). Methodology of machine tool design. Dynamic modeling, analysis, synthesis, and simulation of machine tools to meet functional requirements and design constraints. Prerequisites: ME 285 and ME 306.

483 Manufacturing Automation (3). 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. Prerequisite: Senior standing Restrictions: None

484 Vibration Analysis (3). Vibration theory with application to mechanical systems. Prerequisites: ME 285 and MATH 345.

486 Introduction to Finite Element Methods (3). 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: ME 285 and CE 276.

495 Vehicle Dynamics (3). 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: ME 385.

496WI Mechanical Design Synthesis (4). 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. Prerequisites: ME 130, ME 285, ME 324, and ME 456WI Restrictions: None

499 Intermediate Heat Transfer (3). Advanced topics in conduction, convection and radiation heat transfer including transient heat transfer, phase change and heat exchangers. Prerequisite: ME 399.
Division of Computer Science and Electrical Engineering

546 R.H. Flarsheim Hall
5110 Rockhill Road
(816) 235-1193
Fax: (816) 235-5159
csee@umkc.edu
http://www.umkc.edu/csee

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Interim Division Head:
Appie van de Lievoort

Professors:
Lein Harn, Richard Hetherington, Vijay Kumar, Deep Medhi, William Osborne (Dean), E.K. Park, Xiaojun Shen, Khosrow Sohraby, Appie van de Lievoort

Associate Professors:
Ghulam Chaudhry, Yijie Han, Jerome Knopp, Jerry Place, Jerry Stach

Visiting Associate Professor:
Mary Lou Hines (Vice Provost for Strategic Partnerships)

Assistant Professors:
Cory Beard, Deb Chatterjee, Deendayal Dinakarpandian, Yuyung Lee, Ken Mitchell, Nihat Cem Oguz, Prem Uppuluri, Yu-Ping Wang

Assistant Professor Emeritus:
David Skitek

Research Assistant Professor:
Wen Hsin

Visiting Assistant Professor:
Robert Cotter

Lecturers/Assistant Lecturers:
Eddie Burris, Brian Hare, Mark Hieber, Judy Mullins

Adjunct/Affiliate Faculty:
David Bodde (Professor, Bloch School), Mark Hoffman (Cerner), Peter Rogan (Associate Professor, Children’s Mercy Hospital and UMKC School of Medicine), Jeff Rydberg-Cox (Assistant Professor, Department of English Language and Literature)

Description
The CSEE Division is one of the two divisions in the School of Computing & Engineering (SCE) at the University of Missouri-Kansas City. The CSEE Division has about 25 full-time faculty members who are very active in research with funding from NSF, DARPA and industries. Recently, four NSF grants were awarded to CSEE faculty (including an NSF CAREER award). We have a strong partnership with Sprint Corporation which is headquartered in Kansas City. In the life sciences area, we’re building new 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:

- Database/Information Management (Mobile Databases, Data Mining, Knowledge Discovery),
- Digital Signal Processing,
- Computer Engineering,
- BioInformatics and
- R.F./Antenna and Electromagnetics.

The CSEE Division 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.

The Division currently has about 750 students. Of that, around 500 are at the undergraduate level (for the different degree programs combined) and 250 are at the Masters level (for the different degree programs combined); additionally, about 40 doctoral students participate in UMKC’s Interdisciplinary Ph.D. Program through a discipline in CSEE.

Student Organizations
The SCE Student Council addresses the need of the students within the School of Computing and Engineering. CSEE encourages every student to actively participate in a student organization that matches his or her interests:

- ACM (Association for Computing Machinery) is the leading professional organization in Computer Science and its student chapter in our CSEE Division is very active.
- AITP (Association of Information Technology Professionals) caters to the interest of both information technology students as well as business students.
- IEEE (Institute of Electrical and Electronics Engineers) is the leading professional organization in Electrical Engineering. Many (if not most) in the Computer Science profession are also members of IEEE. Our student chapter won the prestigious Region 5 2003 RAB Student Branch Membership Growth Award.

Eta Kappa Nu is the National Honor Association for electrical and computer engineering students.

CSEE Undergraduate Programs
The CSEE Division administers undergraduate degrees in the areas of:

- Computer Science (BA, BS),
- Electrical and Computer Engineering (BS),
- Information Technology (BIT).

A minor in Computer Science is available for interested students.

There are two degrees available in Computer Science:
Bachelor of Arts in Computer Science (BA-CS, with a liberal arts perspective), and Bachelor of Science in Computer Science (BS-CS, with a more thorough technical perspective). The BS degree has optional concentrations or emphases in software engineering, computer networking, and a newly introduced option in 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 (BS-ECE), which is accredited by ABET (Accreditation Board for Engineering and Technology), is for students wanting to pursue a career in Electrical and Computer Engineering. The Bachelor of Information Technology (BIT) degree caters to the need of the I.T. industry and uniquely blends both Computer Science and business coursework.

Students Transferring from Other Missouri Institutions with a Certified 42-Hour Core Curriculum
Students transferring into the Computer Science and Electrical Engineering Division with a certified 42-hour block of general education credit from another Missouri institution typically might be required to complete additional coursework as
specific to the degree programs pursued. A student should consult with an academic adviser to obtain the specific details.

Students Wishing to Complete UMKC’s 42-Credit Hour Certified General Education Core Prior to Transferring to Another Missouri Institution
See the General Undergraduate Academic Regulations and Information section of this catalog. CSEE students wishing to complete the 42-hour core should also consult with an academic adviser by contacting the Division Office at (816) 235-1193.

Academic Regulations
All students pursuing an undergraduate degree in the CSEE division, (i.e. the B.I.T., B.A. in C.S., B.S. in C.S., or B.S. in E.C.E.), 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 sample is meant as a planning guideline for students.

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.

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 this degree program (D-GPA) from the University of Missouri system are all 2.0 or higher. Students will be placed on academic probation if, when in good academic standing, their T-GPA or their D-GPA is 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 will become ineligible to continue their degree objective if their T-GPA or D-GPA is less than 1.0. Students also become ineligible to continue their degree objective if, while on probation, both their T-GPA and their D-GPA are less than 2.0. 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 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
No courses taken within the University of Missouri system may be repeated if a grade of C (2.0) or better has been obtained. All grades in each attempt count toward cumulative grade point calculation.

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.

Petitioning
Any exception to academic policy and regulations or to the degree requirements (e.g. transfer courses taken elsewhere, course waiver, waiver of residency) must be requested through a written petition. The petition form is available from the CSEE Division Office and on the web; the completed petition includes an explanation for the petition should be submitted to the CSEE Division Office. The degree program coordinator or his/her designee will review such petitions and will communicate the result to the student. It is important that the petition include any necessary documents as attachments for a timely decision.

Graduation Requirement
For students to obtain an undergraduate degree in the CSEE division, 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 C.S., B.S. in C.S., B.S. in E.C.E., or B.S. in E.E. In addition, there are a number University-wide degree requirements and a number of restrictions that apply:

1. Not more than three of the courses CS 140 through 149 and 240 through 249 may be counted;
2. ENGL 299 does not count toward the degree requirements;
3. A minimum of 36 credit hours from junior/senior level courses must be included;
4. The GPA from all courses attempted at the University of Missouri must be at least 2.0;
5. The GPA from all courses attempted in the major must be at least 2.0;
6. Can only count individual coursework in CS, ECE, or IT toward the degree if at least a C (2.0) is earned;
7. Can only transfer individual coursework in CS, ECE, or IT toward the degree if at least a C (2.0) is earned;
8. The final 30 consecutive credit hours of course work taken at UMKC;
9. 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.

Student who are pursuing a second undergraduate degree must have a minimum of 30 credit hours from UMKC, of which a minimum of 12 credit hours are from junior/senior level courses.

Bachelor of Information Technology
The Bachelor of Information Technology (B.I.T.) program caters to the need of I.T. industry and uniquely blends both Computer Science and Business coursework. (Contact info: (816) 235-1193, sce@umkc.edu.)

Educational Objectives
The use of computers in commerce and industry keeps the college educated IT professional at the forefront of occupational demand. The B.I.T. degree is designed to provide commerce and industry with appropriately educated, highly motivated graduates who are competent in the application of computer science in the context of business. An internship is a degree requirement for this degree program. The degree also emphasizes the integration of communication, business, the behavioral sciences and the demands of the IT professional. This degree is typically a terminal degree within Computer Science, although graduate degrees, in Business
Administration for example, can be very helpful. Students wishing to do graduate work in Computer Science should work towards the Bachelor of Science degree in Computer Science.

**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 can adapt quickly to an ever changing skill set.

**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 much science and mathematics 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 (for example, from community colleges) will be admitted provided they have at least a 2.0 cumulative GPA; however, a higher GPA is strongly recommended for students pursing this rigorous degree program. Courseworks are accepted only if they fit into the content and the requirement of the degree program/courses at the University of Missouri-Kansas City or have been approved as part of a transfer articulation agreement. Not all IT courses taken at other institutions will transfer, and if they transfer, might not satisfy specific B.I.T. degree requirements. Students taking courses at other institutions are welcome (and encouraged) to check the transferability of coursework.

**Advising and Registration**
For advising in regard to their degree programs, students need to contact the CSEE Division Office. Each student will be 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 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.

**Curriculum Requirement**
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)**
- CS 101 Prob. Solv. & Prog I
- CS 191 Discrete Structures I
- CS 201 Prob. Solv. & Prog II
- CS 281 Intro to Computer Architecture
- CS 291 Discrete Structures II
- CS 352 Data Structures & Algorithms

- CS 431 Intro. to Operating Systems
- CS 441 Prog. Lang. Design & Implementation
- CS 470 Intro. to Database Mgmt. Systems
- IT 321 Intro. to Computing Resources Admin.
- IT 222 Multimedia Production & Concepts
- IT Advanced Programming Specialty Elective*
- IT Course Specialty I*
- IT Course Specialty II*

* IT Computing Resources (CS 420) or IT Programming (IT 350, CS 461, 423, 456 or 475)

**General Education Synthesis (3 Hours)**
- CS 451 Software Engineering

**Anatomy of Business (18 Hours)**
- Actg 210 Principles of Accounting
- Actg 211 Intro. to Managerial Accounting
- BMA 306 Legal, Ethical and Regulatory Environment of Business
- BA 426 Operations Management
- Business Electives:
  - (Choose two of the following)
  - BMA 305, BA 324, BDS 330, BMA 360,
  - BMA 410, BA 325 or BMA 497

**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
- MATH 235 Statistics

**Social and Behavioral Sciences (9 Hours)**
- HIST 101, 102, 360R or POLSC 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)**
- ENGL 110 Freshman English I
- ENGL 225 Freshman English II
- COMS 110 Fundamentals of Speech

**Humanities and Fine Arts (9 Hours)**
- ENGL 304WI Technical Writing or equivalent
- Prerequisite: WEPT exam
- PHIL 222 Foundations of Logic & Scientific Method
- Prerequisite: Sophomore standing
- Elective: Art/Art History, Conservatory or Theater

**Internship Requirement (6 Hours)**

**Total Minimum Requirement: 120 hours**

**Specialty Areas**
B.I.T. students can take from the following specialty areas:
- IT Computing Resources (IT 321, CS 420)
- IT Media Design (IT 222)
- IT Programming (IT 350, CS 461, CS 423, CS 456, CS 475)

**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 Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101(b)</td>
<td>Problem Solving and Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 191(b)</td>
<td>Discrete Structures I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110(g)</td>
<td>Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>COMS 110(g)</td>
<td>Fundamentals of Effective Speaking</td>
<td>3</td>
</tr>
<tr>
<td>MATH 210(b)</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
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**Second Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 201(b)</td>
<td>Problem Solving and Programming II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 210(b)</td>
<td>Principles of Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Constitution Requirement(g)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CS 291(b)</td>
<td>Discrete Structures II</td>
<td>3</td>
</tr>
<tr>
<td>IT 222(b)</td>
<td>Multimedia Production and Concepts</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
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**Third Semester**

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CS 352(b)</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 222(g)</td>
<td>Foundations of Logic</td>
<td>3</td>
</tr>
<tr>
<td>General Elective(g)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENGL 225(g)</td>
<td>English II</td>
<td>3</td>
</tr>
<tr>
<td>General Elective(g)</td>
<td></td>
<td>3</td>
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**Fourth Semester**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CS 431(b)</td>
<td>Introduction to Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>IT 350(b)</td>
<td>Obj. Oriented Software Development</td>
<td>3</td>
</tr>
<tr>
<td>BMA 306(b)</td>
<td>Legal, Ethical and Regulatory Resources Administration</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 304WI(g)</td>
<td>Writing and Technology (or equiv.)</td>
<td>3</td>
</tr>
<tr>
<td>Humanities and Fine Arts Elective(g)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
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**Fifth Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 441(b)</td>
<td>Programming Languages - Design and Implementation</td>
<td>3</td>
</tr>
<tr>
<td>IT 321(b)</td>
<td>Introduction to Computing Resources Administration</td>
<td>3</td>
</tr>
<tr>
<td>BA 426(b)</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202(g)</td>
<td>Introduction to Economics II</td>
<td>3</td>
</tr>
<tr>
<td>General Elective(g)</td>
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**Sixth Semester**

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<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 470(b)</td>
<td>Introduction to Database Management</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science Elective(g)</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>IT Elective(b)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CS 491(b)</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>Business Elective(b)</td>
<td></td>
<td>3</td>
</tr>
<tr>
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**Seventh Semester**

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<tr>
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<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>IT Elective(b)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Business Elective(b)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CS 451(b)</td>
<td>Software Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CS 491(b)</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**Bachelor of Science/Bachelor of Arts in Computer Science**

There are two undergraduate degree options in Computer Science: the Bachelor of Arts (B.A.) degree and the Bachelor of Science (B.S.) degree. Contact info: (816) 235-1193, scec@umkc.edu.

**Educational Objectives**

Undergraduate majors in computer science at the University of Missouri-Kansas City receive a broad, general education in the liberal arts, as well as a strong technical background in computer science. The programs serve to give the student excellent preparation for careers in computer science or for graduate study.

**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.

**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 much science and mathematics in secondary school as possible. Students without the recommended preparation must take prerequisite coursework in order to prepare to enroll 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 (for example, 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. Courseworks are accepted only if they fit into the content and the requirement of the degree program/courses at the University of Missouri-Kansas City or have been approved as part of a transfer articulation agreement.

**Advising and Registration**

For advising in regard to their degree programs, students need to contact the CSEE Division Office. Each student will be 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 Division 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.

**Curriculum Requirement**
The requirements for the B.A. in Computer Science are listed in column (1), those for the B.S. in Computer Science are listed in column (2).

<table>
<thead>
<tr>
<th>Computer Science</th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101  Prob. Solv. &amp; Prog. I</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 191  Discrete Structures I</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 201  Prob. Solv. &amp; Prog. II</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 281  Intro. to Computer Arch.</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 282  Assembler Language Prog.</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 291  Discrete Structures II</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 352  Data Structures &amp; Algorithms</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 393  Numerical Analysis &amp; Symbolic Computation</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>CS 394R Applied Probability</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>CS 431  Intro. to Operating Systems</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>CS 441  Prog. Lang. Design &amp; Impl.</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 481  Advanced Computer Arch.</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS Advanced Electives *</td>
<td>6</td>
<td>12</td>
</tr>
</tbody>
</table>

**Minimum Requirement** 33 48

* CS regular courses numbered 400-499

**General Education Synthesis**

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>(1)</th>
<th>(2)</th>
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<tbody>
<tr>
<td>MATH 210 Calculus I</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>MATH 220 Calculus II</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>MATH 250 Calculus III</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>MATH 235 Elementary Statistics</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>MATH 235 or CS 394R or MATH 436</td>
<td>3</td>
<td>-</td>
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</tbody>
</table>

**Minimum Requirement** 11 15

**Humanities and Fine Arts**

<table>
<thead>
<tr>
<th>English</th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110 Freshman English I</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 225 Freshman English II</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>COMS 110 Fundamentals of Speech</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

**Minimum Requirement** 9 9

**Life and Physical Sciences**

<table>
<thead>
<tr>
<th>Physics</th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 240 and 250</td>
<td>-</td>
<td>10</td>
</tr>
</tbody>
</table>

One course in one of the following:

Physics, Chemistry or Biology 4-5 |

Life Science Course 3 |

**Minimum Requirement** 7-8 13

**Social and Behavioral Sciences**

<table>
<thead>
<tr>
<th>History</th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101, 102, 360R or POLSC 210</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

(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

**Foreign Language**

<table>
<thead>
<tr>
<th>Language</th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRLNG 110 or 1 year H.S. study</td>
<td>0 4</td>
<td>-</td>
</tr>
<tr>
<td>FRLNG 120 or 2 years H.S. study</td>
<td>0 4</td>
<td>-</td>
</tr>
<tr>
<td>Culture Course (Independent Global Env.)</td>
<td>3</td>
<td>-</td>
</tr>
</tbody>
</table>

**Minimum Requirement** 3-11 -

**General Electives**

Additional coursework to complete the credit hours needed for graduation

<table>
<thead>
<tr>
<th>Minimum Requirement</th>
<th>(1)</th>
<th>(2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>31-39</td>
<td>15-19</td>
<td></td>
</tr>
</tbody>
</table>

**Total Minimum Requirement:** 120 120

**Concentration Areas**

Students pursuing the B.S. degree in Computer Science are required to take four advanced elective courses (at 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: (a) computer and telecommunications networking, (b) software engineering.

The courses required for the emphasis area in Bioinformatics can be accommodated within the current plan of study, if properly chosen. They are: BIOL108-General Biology I w/Lab, BIOL109-General Biology II w/Lab, BIOL201-Cell Biology, BIOL203-Genetics, CHEM 211-General Chemistry I w/Lab, CHEM212-General Chemistry w/Lab, CHEM367-BioOrganic Chemistry, CS490B-Introduction to Bioinformatics, and either CS71-Introduction to Oracle DBMS or CS470-Introduction to DBMS.

For the concentration in computer and telecommunications networking, students may take the four CS advanced electives from the following list of courses: CS 411, CS 416, CS 420, CS 421, CS 423. Courses offered as special topics (CS 490) that are relevant to this concentration may also count.

For the concentration in software engineering concentration, students may take the four CS advanced electives from the following list of courses: CS 456, CS 457, CS 458, CS 461, CS 464, CS 493. Courses offered as special topics (CS 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 B.A.-C.S. requires a subset of courses as far as Computer Science and Mathematics are concerned, it’s not shown separately.

**First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>(1)</th>
<th>(2)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101</td>
<td>Prob. Solv. &amp; Prog. I</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 191</td>
<td>Discrete Structures I</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110</td>
<td>Freshman English I</td>
<td>3</td>
<td>3</td>
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<tr>
<td>COMS 110</td>
<td>Fundamentals of Speech</td>
<td>3</td>
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**Minimum Requirement** 16

**Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>(1)</th>
<th>(2)</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CS 201</td>
<td>Prob. Solv. &amp; Prog. II</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MATH 220</td>
<td>Calculus II</td>
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<tr>
<td>Constitution Requirement</td>
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<td>3</td>
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<tr>
<td>Humanities and Fine Arts Elective</td>
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<tr>
<td>General Elective</td>
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**Total Hours** 16

**Third Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>(1)</th>
<th>(2)</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CS 281</td>
<td>Intro. to Computer Architecture</td>
<td>3</td>
<td>3</td>
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<tr>
<td>MATH 250</td>
<td>Calculus III</td>
<td>4</td>
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<tr>
<td>MATH 235</td>
<td>Statistics</td>
<td>3</td>
<td>3</td>
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<tr>
<td>PHYS 240</td>
<td>Physics for Eng. &amp; Scientists I</td>
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**Total Hours** 15

201
Fourth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CS 282(b)</td>
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</tr>
<tr>
<td>CS 291(b)</td>
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</tr>
<tr>
<td>PHYS 250</td>
<td>5</td>
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<tr>
<td>ENGL 225</td>
<td>3</td>
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<tr>
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Fifth Semester

<table>
<thead>
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<th>Course</th>
<th>Hours</th>
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<tr>
<td>CS 352</td>
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<tr>
<td>CS 394R</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Science Elective</td>
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<td>Social and Behavioral Science Elective</td>
<td>3</td>
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<tr>
<td>Humanities and Fine Arts Elective</td>
<td>3</td>
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<td><strong>Total Hours</strong></td>
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Sixth Semester

<table>
<thead>
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<th>Course</th>
<th>Hours</th>
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<tr>
<td>CS 393</td>
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<tr>
<td>CS 441</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 304WI</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science Elective 400-level</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Science Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
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</table>

Seventh Semester

<table>
<thead>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CS 431</td>
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<tr>
<td>Computer Science Elective 400-level</td>
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<tr>
<td>General Elective</td>
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<tr>
<td><strong>Total Hours</strong></td>
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Eighth Semester

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<td>CS 451</td>
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<tr>
<td>CS 481</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science Elective 400-level</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**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- (1.7).

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 is a prerequisite for CS 101 and 191.

**Computer Science Minor**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101</td>
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</tr>
<tr>
<td>CS 191</td>
<td>3</td>
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<tr>
<td>CS 201</td>
<td>3</td>
</tr>
<tr>
<td>CS 281</td>
<td>3</td>
</tr>
<tr>
<td>CS 291</td>
<td>3</td>
</tr>
<tr>
<td>CS 352</td>
<td>3</td>
</tr>
<tr>
<td>CS 4XX</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Credit Hour Requirement</strong></td>
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</tr>
</tbody>
</table>

**Bachelor of Science in Electrical and Computer Engineering**

The CSEE division offers a Bachelor of Science degree in Electrical and Computer Engineering. This degree was approved by the Coordinating Board for Higher Education in 2003. Some changes may have occurred after this catalog went to print, please contact the CSEE Division office (816) 235-1193, see@umkc.edu for additional information.

**Educational Objectives**

The educational objectives of the UMKC ECE Program are to develop students:

1. Knowledgeable in both electrical and computer engineering and some of its sub-disciplines as well as the business-related aspects of engineering;
2. With a broad background that will prepare them for myriad career opportunities in engineering, technology-based businesses and entrepreneurship;
3. With the skills to be leaders in the workplace through team-building and strong communication skills;
4. With an appreciation and awareness for their moral, ethical, legal and professional obligations to regard the safety, health and welfare of the public as their most sacred trust;
5. That have a keen appreciation for the diversity needed in wholesome and well-considered engineering design processes that include the practical, human and ecological needs of society;
6. That view their education in engineering as a knowledge-building and maintenance process that requires lifelong attention to learning.

**Career Implications**

Job opportunities abound for engineering majors. In terms of starting salaries and the number of job offers, engineering graduates compared favorably with all other graduates. In addition, the electrical engineering curriculum at UMKC equips the graduate with the analytical decision-making skills necessary to pursue diverse technical, managerial and entrepreneurial career opportunities.

**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 as an undeclared major. The student may apply for acceptance after completing 24 semester credit hours of the required coursework.

Transfer students (for example, 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. Engineering courses are accepted only if they are from ABET-accredited engineering programs or have been approved as part of a transfer articulation agreement.

**Advising and Registration**

For advising in regard to their degree programs, students need to contact the CSEE Division Office. Each student will be 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 Division 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.

Curriculum Requirement

Electrical and Computer Engineering/Computer Science

(Minimum 61 Hours) Hours
ECE 216 Engineering Computation 4
ECE 226 Logic Design 3
ECE 227 Logic Design Lab. 1
ECE 276 Circuit Theory 3
ECE 302 Traveling Waves & Fields 3
ECE 303WI Traveling Waves & Fields Lab. 1
ECE 330 Electronic Circuits I 4
ECE 331 Electronic Circuits Lab. I 1
ECE 378 Systems 2
ECE 380 Continuous & Discrete Signals 4
ECE 381 Continuous & Discrete Signals Lab. 1
ECE 402WI Senior Design I 2
ECE 403WI Senior Design II 3
ECE 426 Microcomputer Architecture 3
ECE 427 Microcomputer Arch. Lab. 1
ECE 428R Embedded Systems 3
ECE 429 Embedded Systems Lab. 1
CS 291 Discrete Structures II 3
CS 352 Data Structures and Algorithms 3
CS 431 Intro. to Operating Systems 3
Senior Area Elective (ECE458, 466, or 474) 3
Senior Electives (3 courses) 9

General Engineering (9 Hours)
CE 111 Essentials of Engineering 3
ME 211 The Engineering Enterprise 3
ME 311 The Technical Entrepreneur 3

Life and Physical Sciences (14 Hours)
CHEM 211 General Chemistry 4
PHYS 240 Physics for Science and Engr. I 5
PHYS 250 Physics for Science and Engr. II 5

Mathematics (19 Hours)
MATH 210 Calculus I 4
MATH 220 Calculus II 4
MATH 250 Calculus III 4
ECE 341 Engineering Mathematics 4
CS 394R Applied Probability 3

Social and Behavioral Sciences (9 Hours)
HIST 101, 102, 360R or POLSC 210 3
(Meets MO constitution requirement)
ECON 201 Intro. 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)
ENGL 225 Freshman English II 3
COMS 110 Fund. effect. Speaking and List. 3
WEPT exam

Humanities and Fine Arts (6 Hours)
PHIL 222 Foundations of Logic 3
Prerequisite: Sophomore standing
Elective: Art/Art History, Conservatory or Theater 3

Total Minimum Requirement: 124

Four Year Program Sample

The following sample four-year program, designed for incoming freshmen, illustrates the careful planning necessary to complete the B.S.-E.C.E. degree. All students are urged to construct such a four-year plan, in consultation with a Electrical Engineering degree adviser, as early as possible. While subsequent changes are likely, maintaining a four-year plan provides a coherent path toward the degree.

First Semester Hours
CE 111 Essentials of Engineering 3
MATH 210 Calculus I 4
ECON 202 Economics II 3
Humanities and Fine Arts Electives 6
Total Hours 16

Second Semester Hours
MATH 220 Calculus II 4
PHYS 240 Physics for Eng. & Scientists I 5
COMS 110 Fundamentals of Effective Speaking 3
PHIL 222 Foundations of Logic 3
Total Hours 15

Third Semester Hours
MATH 250 Calculus III 4
PHYS 250 Physics for Eng. & Scientists II 5
ENGL 225 English Composition II 3
ECE 216 Engineering Computation 4
Total Hours 16

Fourth Semester Hours
ME 211 Engineering Business 3
CS 291 Discrete Structures II 3
ECE 230 Biological Engineering 3
ECE 276 Circuit Theory 3
ECE 341 Engineering Mathematics 4
Total Hours 16

Fifth Semester Hours
ECE 302 Traveling Waves & Fields 3
ECE 303 Traveling Waves & Fields Lab. 1
ECE 326 Logic Design 3
ECE 327 Logic Design Lab. 1
ECE 330 Electronic Circuits I 4
ECE 331 Electronic Circuits Lab. I 1
ECE 377 Electrical Measurements Lab. 2
ECE 426 Microcomputer Architecture 3
ECE 427 Microcomputer Architecture Lab. 1
ECE 428R Embedded Systems 3
ECE 429 Embedded Systems Lab. 1
CS 291 Discrete Structures II 3
CS 352 Data Structures and Algorithms 3
CS 431 Intro. to Operating Systems 3
Senior Area Elective (ECE458, 466, or 474) 3
Senior Electives (3 courses) 9

Sixth Semester Hours
CS 352 Data Structures and Algorithms 3
CS 394R Applied Probability 3
ENGL 304WI Technical Writing (or equiv.) 3
ECE 380 Signals & Systems 4
ECE 381 Signals & Systems Lab. 1
ECE 426 Microcomputer Architecture 3
ECE 427 Microcomputer Architecture Lab. 1
Total Hours 15

Seventh Semester Hours
CS 431 Introduction to Operating Systems 3
ME 311 Engineering Entrepreneurship 3
ECE 428R Embedded Systems 3
ECE 429 Embedded Systems Lab. 1
ECE 492 Senior Design I 1
ECE 493 Senior Design Lab. I 1
Senior Elective Course 3-4
Total Hours 18

Eighth Semester Hours
ECE 494 Senior Design II 1
ECE 495 Senior Design Lab. II 1
Senior Elective Courses 9-12
Social and Behavioral Science Elective 3
Total Hours 14-17
Bachelor of Science in Electrical Engineering

The CSEE division offers a Bachelor of Science degree in Electrical Engineering to students currently pursuing this course of study. (Contact info: (816) 235-1193, sce@umkc.edu.)

The BSEE degree is accredited by ABET (Accreditation Board for Engineering and Technology), http://www.abet.org, and is available through May 2007. Starting Fall semester of 2003 all freshman interested in this general area of study, are admitted to the BS in ECE (see above). Students pursuing the BSEE degree, or transfer students interested in this degree, should consult a faculty adviser for their degree requirements.

Computer Science Courses

100 Computer Survival: Applications (3). 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.

101 Problem Solving and Programming I (3). 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 mainframe computing system. Prerequisites: Math 110 or equivalent.

191 Discrete Structures I (3). Mathematical logic, sets, relations, functions, mathematical induction, algebraic structures with emphasis on computing applications. Prerequisite: Math 110


222 Multimedia Production and Concepts (3). Multimedia production and concepts will give an overview of multimedia technology and communication theory needed to deliver information and to produce interactive presentations for the web, for CD-ROM, and for in-person presentations and demos. The course offers exposure to software, hardware, other multimedia technologies, authoring and copyright matters. Prerequisite(s): CS 101

243 C and UNIX (3). Syntaxics 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: CS 101.

246 Introduction to C++ (2). Syntax and semantics of C++ applied to object oriented programming concepts of abstract data type, classes, data hiding, polymorphism and inheritance. Prerequisite: CS 201, CS 243.


282 Assembler Language Programming (3). Use of an Assembler Language for a virtual machine, Internal Representation of Data and Instructions, the Assembly Process, Loading and Program Relocation and Execution. Prerequisite: CS 101, CS 191 and CS 281.

283 Logic Design (4). Design of digital logic structures with small and medium scale integrated circuits. Introduction of propagation delay, loading, voltage and timing diagrams. Emphasizes design techniques for combinatorial and sequential design. Prerequisite: CS 281, CS 311.

291 Discrete Structures II (3). Lattice structures and graph theory, algorithms, Boolean Algebra, introduction to computability theory and abstract machines. Prerequisite: CS 191.

311 Introduction To Circuits And Devices (4). Electric charge and electric energy, Kirchoff’s law for current and voltage, analysis of DC circuits, Thevenin and Norton equivalent, inductors and capacitors, transient response of RL and RC circuits, AC circuit analysis and effective value AC signals, and Laplace Transform method for transient analysis. Prerequisites: MATH 220 and PHYSICS 250. Offered: Every Year Restrictions: None

317 Telecommunications: Management & Legal Issues (4). Analysis of financial and legal issues surrounding the domestic telecommunications industry. Ratio analysis; capital structure; regulatory implications on the convergence of computers and communications; recent FCC trends in regulation and policy; market structure; impact of new technologies; background and analysis of the Communications Act of 1934 and major amendments to date.

321 Intro to Computing Resources Administration (3). A system administrator is a technical person in charge of computing resources for an organization. This person cares for the computing system and responds to the users computing needs. This introductory course is designed to give an overview of a wide variety of technical, interpersonal, documentation, and managerial skills needed to become an effective systems administrator. Prerequisite(s): CS 352

349 Java Programming with Applications (3). 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, database access, and multithreading. Prerequisite: CS201 or equivalent Offered: Every Semester

350 Object-Oriented Software Development (3). This course will expose the student to object oriented methodologies in building real world software systems. Students will learn the application of object oriented programming languages as a means to implement object oriented designs. Prerequisites: CS 201 and CS 352.

352 Data Structures and Algorithms (3). Abstract data structures and analysis of associated algorithms, abstractions as separate from implementation. Structures include lists, trees, priority queues, advanced tree structures, and graphs. Comparison of efficiency of algorithms as implemented with different data structures. Advanced searching, Advanced searching, shortest paths, spanning tree and flow algorithms. Introduction to the basic concepts of NP-complete problems. Prerequisites: CS 201, CS 291, MATH 160 or MATH 210. Offered: Every Semester Restrictions: None

393 Numerical Analysis and Symbolic Computation (3). 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 (e.g. MAPLE OR MATHEMATICA) on both symbolic and numerical computation, applied to the above listed basic elements of numerical analysis. Prerequisite: Math 250, CS 201, CS 281.

394R Applied Probability (3). Basic concepts of probability theory as they apply to communication networks. Counting and measuring. Probability, conditional probability and independence. Random variables: Discrete, continuous, and multivariate. Functions of random variables and of function 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. Prerequisite: CS 201, MATH 250, MATH 325 Offered: Fall/Winter Restrictions: None

411 Introduction to Telecommunications Systems (3). Representation of signals and systems, Fourier Series, Fourier Transform, transmission of signal through linear systems, frequency and phase, the behavior of linear systems, modulation systems, sampling, time division multiplexing, digital modulation and noise in modulation systems. Prerequisites: CS 311, 394 and MATH 250.

416 Telecommunications Systems: A Survey (3). Review of telecommunications techniques; wire, radio, microwave, satellite and optical fiber communications systems; mobile phones, ISDN and broadband ISDN, Signaling System No. 7, CCITT telecommunications standards. Prerequisite: CS 311 or consent of instructor.

420 Introductory Network Models and Interconnections (3). This introductory course examines the system’s 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 through bridges and routers. NOTE: NOT FOR GRADUATE CREDIT. Prerequisites: Senior Standing/Consent of Instructor. Offered: Alternate

421 Foundations of Data Networks (3). 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: CS 291, 352, 394 (recommended). Offered: Every Semester Restrictions: None

423 Client/Server Programming and Applications (3). 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 RCP and rmi) and formal object environments designed to facilitate network programming (COBRA, COM and Beans). Prerequisites: CSS352, CSS431.

431 Introduction to Operating Systems (3). Concurrency and control of asynchronous processes, deadlocks, memory management, processor and disk scheduling, parallel processing, file system organization. Prerequisites: CS 352, CS 394, and CS 281.
432 Operating Systems Programming (3). Computer system performance evaluation, computer system resource management, job scheduling, software and hardware monitors. Prerequisite: CS 431, 494.

441 Programming Languages: Design and Implementation (3). 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: CS 352.

444 Compiler/Translator Design (3). 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/translator are built and operate is important to understanding efficiency of operation and storage. Prerequisite: CS352.

451 Software Engineering (3). 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: CS 352.


457 Software Architecture: Requirements & Design (3). 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): CS352: knowledge of at least one high-level programming language.

458 Software Architecture: Testing & Maintenance (3). Introduction of software testing (including verification), software reuse, software maintenance, and software re-engineering. Prerequisite(s): CS352: knowledge of at least one high-level programming language.

461 Introduction to Artificial Intelligence (3). Search space generation, pruning and searching. employment of heuristics in simulation of the cognitive process, an overview of predicate calculus, automatic theorem proving. Prerequisite: CS 441.


470 Introduction to Database Management Systems (3). 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: CS352.

471 Introduction to Oracle DBMS (3). This course discussed 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 Windows NT. There is also a review of database functionality and professional alike. Prerequisite: Intro to Data Structure (CS352) Restrictions: None


490 Special Topics (1-3). Selected topics in specific areas of computer science. May be repeated for credit when the topic varies.

491 Internship (0-6). 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 CS491 Internships are available in the office of CSEE Division and on the web. Prerequisite: Senior level or above and consent of instructor. Offered: Every Semester Restrictions: None

493 Introduction to Computability, Formal Languages and Automata (3). 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: CS 291.

494R Applied Stochastic Models (3). Review of basic probability, Poisson counting process, Markovian birth and death processes and elementary queueing 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

497 Directed Readings (1-3). Readings in an area selected by an undergraduate student in consultation with a faculty member. Arrangements must be made prior to registration.

498 Research Seminar (1-3). 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.

499 Undergraduate Research (1-3). Completion of project, including a final written report, under the direction of a faculty member. A prospectus must be accepted prior to registration.

Information Technology Courses

222 Multimedia Production and Concepts (3). 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): CS101- Offered: Winter Semester

290 Special Topics (1-3). Selected topics in specific subject areas of Information Technology which are not part of the regular offerings. Prerequisite: Approval of instructor. Offered: Winter

321 Introduction to Computing Resources Administration (3). A system administrator is a technical person in charge of computing resources for an organization. This person cares for the computing system and responds to the users’ computing need 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: CS352. Offered: Winter

350 Object-Oriented Software Development (3). This course will expose the student to object oriented methodologies in building real world software systems. Students will learn the application of object oriented programming languages as a means to improve conventional object oriented designs. Prerequisites: CS 201 and CS 352. Offered: Winter Semester

490 Special Topics (1-3). Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

490NS Special Topics (1-3). Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

491 Internship (1-6). 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 CS491 Internships are available in the CSEE Division Office. Prerequisite: AT least 18 hours of CS/IT that counts towards the B.I.T. degree.

Electrical and Computer Engineering Courses

216 Engineering Computation (4). 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

226 Logic Design (3). Design of combinational logic circuits, logic minimization techniques, design of RAM, ROM, PLA, PAL, design of sequential logic circuits, state machine design, detection of state, application of Verilog HDL design throughout the course. This course
was formerly offered as ECE 326. Should be taken concurrent with the lab-component ECE 227 (1). Offered: Winter

227 Logic Design Laboratory (1). Laboratory for 226. Experimental topics related to the design of sequential logic systems and small digital systems. Formerly offered as ECE 327. Must be taken concurrent with ECE 226. Offered: Winter.

230 Biological Engineering (3). 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, ionic concentration and membrane potential. 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

276 Circuit Theory I (3). Electric circuit laws. Analysis techniques based on these laws and relationships. DC resistive circuits, R-L-C circuit transient and sinusoidal steady-state responses. Prerequisites: ECE 216, Phys 250 with Math 345 concurrently. Offered: Winter.

301 Fundamental Topics in Electrical and Computer Engineering (1-4). Undergraduate topics in electrical or computer engineering. Prerequisite: Instructor’s consent. Offered: On demand.

302 Traveling Waves and Fields (3). Complex vectors; maxwell’s equations; wave equations in lossy and lossless media; intrinsic impedance and complex propagation constants; plane wave propagation in lossy media; skin depth; normal and oblique incidence; polarization; boundary conditions; lossless and lossy transmission lines; input impedance; Smith Chart; impedance matching; single stub tuning. Prerequisites: MATH 250, PHYS 250. Offered: Fall. Recommended: Concurrent enrollment with ECE341.

303 Traveling Waves and Fields-Lab (1). This is a MATLAB-based laboratory course. Students will be required to write computer programs that exploit the MATLAB toolbox features and write technical reports on the results. Typical projects are modeling of transient characteristics on transmission lines, impedance matching network design (with single-stub and passive LC elements), modeling of fast fading effects due to plane traveling waves, with random amplitude and phase distributions, in a wireless channel. Concurrent enrollment with ECE302.

316 Microcomputer Fundamentals (3). Computer arithmetic, combinatorial and sequential circuit analysis and design. Computer organization, bus control, input/output transfers, and interrupts. Introduction to microprocessor-based systems. Prerequisites: ECE 216 with ECE 317 concurrently. Offered: Fall.

317 Microcomputer Fundamentals Laboratory (1). Laboratory for ECE 316. Combinational and sequential logic. 8-bit microprocessors. Prerequisites: ECE 316 concurrently.

330 Electronic Circuits I (4). Semiconductor device physics, electron devices, linear and non-linear modeling with applications to the analysis and design of basic electronic circuits utilizing inclusion operational amplifiers, diodes, BJTs, and FETS. Multistate amplifier and power supplies fundamentals. Prerequisite: ECE 376. Offered: Every year; Fall.

331 Electronic Circuits Laboratory I (1). Laboratory for ECE 330. Semiconductor device physics, electron devices, linear and non-linear modeling with applications to the analysis and design of basic electronic circuits utilizing inclusion operational amplifiers, diodes, BJTs, and FETS. Multistate amplifier and power supplies fundamentals. The IC operational amplifier and applications. Diode circuit applications, RC-coupled amplifiers. Prerequisite: ECE 377 and ECE 330. Offered: Every year; Winter.

334 Physical Electronics (3). Junction theory, semiconductor diodes and models, bipolar transistors and models, field-effect transistors and models, selected electron devices and models. Prerequisites: Math 345. Offered: Fall.

341 Engineering Mathematics (4). This course is a rigorous introduction to the advanced mathematics needed to study electrical engineering including solutions of ordinary and partial differential equations, difference equations, power series, recursion, matrices, linear algebra, Lagrange multipliers, simplex techniques, Laplace transforms, Fourier transforms, Z-transforms, complex variables and residues. Vector calculus is also introduced to the use basic numerical methods as well as symbolic processing techniques using Maple/Maplab. Prerequisites: Math 250 and ECE 216

358 Control Systems (3). Study of feedback techniques, with applications to control systems. Includes modeling, applications of Bode plot, root locus, state-variable, and Nyquist methods. Prerequisite: ECE 380 concurrently. Offered: Every year; Winter.

366 Power Engineering (3). 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: ECE 376 with ECE 302 concurrently. Offered: Winter.

376 Circuit Theory II (3). A continuation of ECE 276. R-L-C transients responses, complex s-plane methods, resonance, frequency response, two-port networks, Laplace transforms for circuit analysis. Prerequisite: ECE 377 concurrently. Offered: Every year; Fall.

378 Systems Lab (2). Introduction to the use and limitations of basic instruments used in elecetrical engineering. ECE 377 and ECE 378 concurrently. Offered: Every year; Fall.

380 Signals and Systems (4). Classifications and representations of signals and systems; continuous and discrete-time signals, linear and time-invariant systems, convolution integral and sum, Laplace and z-transforms, Fourier series and transforms, discrete-time and discrete Fourier transforms. Prerequisite: ECE 341, ECE 378, and ECE 381 concurrently.

381 Signals and Systems Lab (1). Computer Laboratory for ECE 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: ECE 380.

390 Engineering Coop/Internship (0). Students may participate in structured Engineering Coop/ Internship under the supervision of employer. They must carry out significant professional responsibilities and whatever additional assignments are determined by the employer. Prerequisite: Junior level or above or consent of instructor. Offered: Every semester.

400 Problems in Electrical and Computer Engineering (1-4). Analytic or experimental problems pertaining to electrical or computer engineering. Prerequisites: Senior standing and instructor’s approval. Offered: Fall and winter.

401 Topics in Electrical and Computer Engineering (1-4). Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor’s approval.

402WI Senior Design I (2). 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. Stresses written and oral presentation. Prerequisite: Must be taken within three semesters of graduation.

403WI Senior Design II (3). 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: ECE 402WI.


406 Photonics (3). Introduction to the physical principles and optical materials used in diagnostics, optical communications, semiconductor and solid state lasers, optical fiber technology, optical computation, and optical signal processing. Prerequisite: ECE 302.

408 Lasers and Their Applications (3). Principles of Laser operation, characteristics of gas, doped insulator, semiconductor and dye lasers, areas of application and laboratory demonstrations and experiments. Prerequisite: Senior standing. Offered: On demand.

410 Seminar (1). Reviews of recent investigations, projects of major importance. Prerequisite: grade standing.

412 Antennas and Propagation For Wireless Systems (3). Maxwell’s equations & vector potential; radiated fields from current elements & dipoles & loops; microstrip & aperture; antennas; array antenna synthesis; fundamentals of cellular radio; spatial reuse; channel capacity; spatial processing with smart antenna arrays; image theory & its applications friss formula; reflection of EM waves; fast & slow fading due to plate waves; diffraction of EM waves; multipath effects; site-specific propagation analysis; site & ber calculations. Prerequisites: ECE 302, ECE 380, ECE 401H Restrictions: MATLAB Proficiency required.

413 Antenna and Propagation For Wireless Systems Lab (1). 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: ECE 412 Restrictions: MATLAB Proficiency required.

414 Microwave Engineering for Wireless Systems (3). Microwave networks; s-, z-, and abcd matrices; signal flow graphs; circular waveguides; stripline & microstrip characteristics; impedance transformers; power dividers and
438 Amplifier Analysis and Design (3). Design of electronic networks with application to instrumentation, control, and communication systems. Practical specifications and problems in design. Lectures and projects. Prerequisite: ECE 430. Offered: On demand.

452 Computer Process Control (3). Introduces process control; role of analog and digital computers in the control of automatic processing systems; digital control system analysis and design algorithms; process control applications. Prerequisites: ECE 358 and ECE 326. Offered: On demand.

454 Robotic Control and Intelligence (3). Introduces robotics; robot system characteristics; robot motive power systems; geometric structure of robots; sensors and feedback; control applications and algorithms; data acquisition and control; simulation functions; robots and Artificial Intelligence; microprocessor applications in robotics. Prerequisites: ECE 358 and ECE 326, or ECE 426. Offered: on demand.

456 Digital Control Systems (3). The course presents an introduction to digital control systems. Topics include: z-transforms sampling, stability analysis, and digital controller design. Crosslist with ME 455 Digital Control Systems.

458 Automatic Control System Design (3). Techniques for feedback system design and analysis: computational aids, compensator design and examples, state variable methods, non-linear systems, and sampled-data control systems. Prerequisites: ECE 316 and ECE 358. Offered: On demand.


464 Electric Transportation and Industrial Drives (3). 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: ECE 366. Offered: On demand.


468 Electric Power Distribution Systems (3). 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: ECE 366. Offered: On demand.


474 Introduction to Communication Systems (3). 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: ECE 380. Offered: Every year, Fall.


Division of Computer Science and Electrical Engineering

482 Analog Signal Processing (3). 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: ECE 330 and ECE 380. Offered: on demand.

483 Analog Signal Processing Laboratory (1). Laboratory for ECE 482. Analog filters based upon active-RC circuits. Integrated circuit universal active filters and switched capacitor active filters. Prerequisites: ECE 331 with ECE 482 concurrently. Offered: On demand.

484 Digital Image Processing (3). Fundamentals of digital image processing hardware and software, including digital image acquisition, display, compression, transforms and segmentation. Prerequisites: ECE 380 and experience in a high-level programming language.

486 Pattern Recognition (3). 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.

488 Introduction to Digital Image Processing (3). 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.


491 Internship (0-6). Students may participate in structured internships under the joint supervision of an employer and a faculty member. The student must carry out significant professional responsibilities that also have academic merit. The number of credit hours is based on the quality of the academic experience. Available for credit/no credit only and students must be in good standing with at least 18 credit hours of ECE courses counting towards the degree. Registration by consent number only: petition forms for ECE 491 internships are available in the office of CSEE Division and on the web. Prerequisite: At least 18 hours of ECE courses toward the degree.

492WI Senior Design I (1). First capstone design course in electrical engineering. Engineering project planning and development, professional practice, ethics and engineering economy. Stresses written an oral presentation. Prerequisite: Must be taken within three semesters of graduation; ECE 493 and ENGL 304WI taken concurrently. Offered: Fall.

493 Senior Design Lab I (1). Lab course to accompany ECE 492. Provides and accounts for laboratory, library, research and other work needed for the development of the project proposal conceived in ECE 492. Prerequisite: ECE 492 concurrently. Offered: Fall.

496 Special Topics (1-4). 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.

497 Directed Readings (1-4). 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.

498 Research Seminar (1-4). 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.

499 Undergraduate Research (1-3). 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.
School of Dentistry

650 E. 25th Street
(816) 235-2100
Fax: (816) 235-2157
(816) 235-2080 (Admissions)
(800) 776-8652 (Toll-free admissions)
(816) 235-2050 (Division of Dental Hygiene)
dentistry@umkc.edu
http://www.umkc.edu/dentistry

Mailing Address
University of Missouri-Kansas City
School of Dentistry
650 E. 25th Street
Kansas City, MO 64108-2784

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Michael J. Reed
Associate Dean for Academic Affairs:
Pamela R. Overman
Assistant Deans:
David M. Clark (Clinical Programs)
Edgar J. Ellyson (Business Affairs)
Harvey C. Eplee (Information Technology,
Patient and Facilities Management)
John W. Killip (Student Programs)

School of Dentistry Division of Dental Hygiene

Room 415
(816) 235-2050

Director, Division of Dental Hygiene:
Cynthia C. Amyot, BSDH, Ed.D.
Director, Baccalaureate Degree Completion Program:
Kimberly S. Bray, R.D.H., M.S.

History
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 United States 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 professional dental hygiene program (basic preparation). The second alternative provides for the licensed dental hygienist with a certificate or associate degree an opportunity to earn a baccalaureate degree (degree completion). In both instances, graduate dental hygienists have the opportunity of pursuing advanced studies.

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.

Licensure Examinations
To practice dental hygiene legally, the student must take and pass successfully 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 successfully, 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.

Scholarships and Awards
There are various awards and honors available specifically for dental hygiene students.

During the last semester of the program, dental hygiene students who have distinguished themselves are eligible to be selected from the graduating class to become members of Sigma Phi Alpha, a national dental hygiene honor society.
Students who receive this honor must have exhibited 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 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. Please contact the division for more information.

**Bachelor of Science in Dental Hygiene**

This basic preparation program is for the individual who wants to enter 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 private dental offices and to assume responsibilities in one or more of the following:

- Clinical and classroom teaching;
- Community dental health program planning;
- Institutionalized patient care;
- Practice management;
- 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 as follows:

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. High school transcripts;
6. College transcripts of all college coursework;
7. A cumulative college GPA of at least 2.5;
8. A college science grade-point average of at least 2.5;
9. Three evaluation and reference forms;
10. Personal interview with at least two members of the Dental Hygiene Admissions Committee; interviews will be scheduled after February;
11. 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:

<table>
<thead>
<tr>
<th>Communicating (9 hours)</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGL 110 English I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 225 English II</td>
<td>3</td>
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<tr>
<td>COMS 110 Effective Speaking</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Mathematics (3 hours)</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MATH 110 College Algebra</td>
<td>3</td>
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<tr>
<th>Higher-order Thinking, Managing Information and Valuing (6 hours)</th>
<th>Hours</th>
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<tbody>
<tr>
<td>(Choose at least two different fields from the following:)</td>
<td>6</td>
</tr>
<tr>
<td>PHIL 210 or 222</td>
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<tr>
<td>HIST 201, 202, 206 or 208</td>
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<tr>
<td>ANTH 102 or 103</td>
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<tr>
<td>CS 100 or above</td>
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<tr>
<td>MATH 160 or above</td>
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<thead>
<tr>
<th>Humanities and Fine Arts (6 hours)</th>
<th>Hours</th>
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<tbody>
<tr>
<td>One 3 credit hour course chosen from English, Communication Studies, Foreign Language or Philosophy AND one 3 credit hour course from Art/Art History, Conservatory or Theater.</td>
<td>6</td>
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<table>
<thead>
<tr>
<th>Social and Behavioral Sciences (9 hours)</th>
<th>Hours</th>
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<tbody>
<tr>
<td>General Sociology</td>
<td>3</td>
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<tr>
<td>General Psychology</td>
<td>3</td>
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<tr>
<td>Constitution Course</td>
<td>3</td>
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<tr>
<th>Biological and Physical Sciences (13-19 hours)</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Chemistry (Must be a course for Health Science majors which includes a lab &amp; organic chemistry components.)</td>
<td>4-6</td>
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<tr>
<td>Microbiology</td>
<td>3-5</td>
</tr>
<tr>
<td>Anatomy</td>
<td>3-4</td>
</tr>
<tr>
<td>Physiology</td>
<td>3-4</td>
</tr>
<tr>
<td>(If taking a combined Anatomy &amp; Physiology course, it must be a sequence of two semesters.)</td>
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<tr>
<th>Electives (10-15 hours)</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Computer application courses are highly recommended.</td>
<td>10-15</td>
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</table>

**Curriculum**

The dental hygiene program begins in August of each year and continues for two academic years with a summer session between years. Part-time studies are available. For more information, contact the program director.
First Year

Fall Semester
- BMS 3065 Head and Neck Anatomy: 2 hours
- DENHY 3000 Dental Morphology and Occlusion: 2 hours
- DENHY 3020 Dental Radiology: 2 hours
- DENHY 3080 Introduction to the Practice of Dental Hygiene: 4 hours
- DENHY 3080L Pre-clinical Dental Hygiene: 2 hours
- DENHY 3320 Oral Health Education: 2 hours
- LSHSBL 3070 Oral Physiology: 3 hours
- Total: 17 hours

Winter Semester
- LSBIOC 3120 Biochemistry and Nutrition: 3 hours
- DENHY 3200 Histology and Pathology: 3 hours
- DENHY 3220 Dental Biomaterials: 2 hours
- DENHY 3280C Dental Hygiene Clinic I: 3 hours
- DENHY 3285 Seminar in Dental Hygiene I: 2 hours
- DENHY 3260 Principles of Periodontics: 3 hours
- Total: 16 hours

Second Year

Summer Term
- DENHY 4020 Local Anesthesia: 3 hours
- DENHY 4060C Dental Hygiene Clinic II: 2 hours
- DENHY 4065 Seminar in Dental Hygiene II: 2 hours
- DENHY 3340 Principles of Public Health: 2 hours
- Total: 8 hours

Fall Semester
- DENHY 4080 Introduction to Research Design: 2 hours
- DENHY 4100 Pharmacology: 3 hours
- LSBIOC 3240 Applied Nutrition: 3 hours
- DENHY 4120C Dental Hygiene Clinic III: 4 hours
- DENHY 4120 Seminar in Dental Hygiene III: 2 hours
- DENHY 4220 Community Oral Health Field Exp.: 2 hours
- DENHY 4240 Ethics: 1 hour
- Total: 15-18 hours

Winter Semester
- DENHY 4210 Practice Management & Juris: 3 hours
- DENHY 4220 Community Oral Health Field Exp.: 2 hours
- DENHY 4260 Senior Seminar: 2 hours
- DENHY 4260C Dental Hygiene Clinic IV: 4 hours
- Electives (Select one)
  - DENHY 4380 Research Practicum: 2-4 hours
  - DENHY 4340 Community Dentistry Practicum: 2-4 hours
  - DENHY 4320 Special Patient Care Practicum: 2-4 hours
  - DENHY 4350 Perio Co-therapy Practicum: 1-4 hours
  - DENHY 4660 Independent Study: 1-4 hours
  - DENHY 4330 Oncology Practicum: 1-4 hours
- Total: 12-15 hours

Total Hours: 70-73

A minimum of 124 semester hours is required for a bachelor of science 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.

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.

- Instruments and supplies (Entire Program): $1,700
- Textbooks (Entire Program): $1,420
- Uniforms, lab coats, etc. (Entire Program): $600
- National, regional and state licensure fees: $800
- 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 established the Trudy Parker Scholarship Fund, the Noveta Brown Scholarship Fund and UMKC DHAA Scholarships 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

Degree Completion Program
The primary goal of the bachelor of science degree program in dental hygiene (degree completion) is to provide the opportunity for dental hygienists to develop expertise in clinical and classroom education, research, program administration, community dental health program planning, expanded functions and institutionalized patient care. A distance education option is also available. Degree requirements may vary; check with the program director.

Admission 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 Nov. 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:

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 academic 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).

Curriculum
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. Please 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:

- DENHY 595*: Scientific Writing: 1 hour
- DENHY 4020*: Local Anesthesia and Pain Control: 2 hours
- DENHY 4040*: Research and Instruction: 1-2 hours
- DENHY 4500*: Seminar in Health Care Issues: 1-2 hours
DENHY 4620* Principles of Dental Hygiene Education 3
DENHY 4080* Introduction to Research Design 2
DENHY 4625 Dental Hygiene Administration 3
DENHY 4660* Advanced Clinic Concepts and Practicum 2-4
DENHY 4640 Student Teaching and Conference I 2-4
DENHY 4680* Dental Hygiene Clinical Instruction I 2-4
DENHY 4685 Dental Hygiene Clinical Instruction II 2-4
DENHY 4650* Student Teaching and Conference II 2-4
DENHY 4630 Practicum in Dental Hygiene Administration 2-4
DENHY 4635 Practicum in Clinical Supervision 2-4
DENHY 4380 Research Practicum 2-4
DENHY 4660 Independent Study 2-4
DENHY 4340 Community Dentistry Practicum 2-4
DENHY 4350 Periodontics Co-Therapy Practicum 3
DENHY 4330 Oncology Practicum 2-4
DENHY 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.

**Academic Standards**
Students enrolled in the Division of Dental Hygiene are bound by the Standards of Scholarship and Professional Growth & Development of the School of Dentistry. These were outlined previously under the Four-Year Doctor of Dental Surgery Program.

**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 acceptable 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 further information regarding admission to either the basic preparation or degree completion program in dental hygiene, please contact the Division of Dental Hygiene at the address at the beginning of this section.

**Dental Hygiene Courses**

**3000 Dental Morphology and Occlusion (2).** Study of the structural formation of permanent and deciduous teeth. Includes detailed information on each tooth as to crown and root anatomy and as to form and function. Occlusion and malocclusion are studied. Laboratory exercises are included.

**3020 Dental Radiology (2).** 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.

**3080 Introduction to the Preventive Practice of Dental Hygiene (4).** This course will introduce theories and rationales for basic clinical dental hygiene care (infection control, oral examination and fundamentals of instrumentation). Practical application of specific clinical skills will be introduced in the classroom and applied in the clinical setting, DH3080L.

**3080L Preclinical Dental Hygiene (2).** Practical application of the fundamental concepts and principles of patient care discussed in DH3080. 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.

**3200 Histology and Pathology (3).** An introduction to microscopic study of normal tissues and organs with special emphasis on oral tissues and a generalized study of pathologic conditions, degenerative process, inflammation and immunity. Oral pathological lesions, their identification, etiology and effect on total health are emphasized.

**3220 Dental Biomaterials (2).** This course is designed to provide a sound knowledge base in the science and manipulation of dental biomaterials. Lectures and laboratory sessions will assist in providing the student the ability to make judgments regarding the application and oral reactions of various dental materials.

**3260 Principles of Periodontics (3).** This course in Periodontics will cover the biological and clinical aspects of periodontal disease 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.

**3280 Dental Hygiene Clinic I (3).** Students will further develop clinical skills and techniques learned in DH 3080L and previous courses by providing services to patients.

**3285 Seminar in Dental Hygiene I (2).** This course expands on theory and background presented in DH 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.

**3320 Oral Health Education (2).** 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. The steps involved in the development of an individual oral health program will be presented. The student will then have the opportunity to apply concepts in the clinical setting.

**3340 Principles of Public Health (2).** Principles of public health, health care delivery systems, epidemiology and public health terminology are introduced. Students will investigate medical/dental sociological principles which influence health care systems. Students will be able to discuss pertinent aspects of current public health issues and relate them to their future roles as health professionals.

**4020 Local Anesthesia and Pain Control (3).** This course is designed to prepare 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 anesthesia and nitrous oxide. Classroom and weekly laboratory sessions are included for the student to develop competency in the techniques of administering a local anesthetic and nitrous oxide inhalation sedation. Various mechanisms for pain control are also covered.

**4040 Introduction to Research and Instruction (1-2).** 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 oral healthcare.
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.

4060C Dental Hygiene Clinic II (2). The student will continue to develop competency in basic dental hygiene skills. Principles of periodontal techniques, such as scaling and root planing, supportive treatment procedures and comprehensive patient care will be emphasized. The student will be asked to demonstrate professional management skills and productivity.

4065 Seminar in Dental Hygiene II (1). This course is offered in conjunction with Dental Hygiene Clinic II and is part of the clinical education continuum. Emphasis will be placed on developing advanced skills, instrument sharpening, intra-oral imaging, adjunctive dental hygiene treatment, and continued problem-solving in the clinical setting.

4080 Introduction to Research Design (2). Basic principles and concepts of research and the use of statistical methods in scientific inquiry are discussed. Skills in writing research protocol, surveying methods, and data collection will be required.

4100 Pharmacology (3). Discussion of sources of drugs, methods of their administration, classification, dosage, therapeutic application and interactions.

4120 Seminar in Dental Hygiene III (2). This course is offered in conjunction with DH 4120C Preventive Dentistry Clinic III, and is a part of the clinical education continuum. Major content emphasis includes developing problem solving abilities, patients with special needs (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.

4120C Dental Hygiene Clinic III (4). The student will continue to develop competency in intermediate dental hygiene skills. Principles of periodontal techniques, such as root planning, anesthesia and supportive techniques will be stressed. Comprehensive treatment planning and implementation of comprehensive care will be the focus of this course.

4120 Practice Management (3). Current relevant issues impacting dental hygiene practice are discussed. Dental practice economics, communicating and management are included.

4220 Community Oral Health Field Experiences (2). The student will apply the principles of public health presented in DH3340 to community field experiences. The service learning format will allow students the opportunity to assess a target population, as well as plan, implement and evaluate appropriate programs. Students will also apply the theories and skills of communication and education while preparing and presenting oral health education programs for various population groups. Semester Offered: Fall & Winter

4230 Principles of Public Health (2). Principles of public health, health care delivery systems, epidemiology and public health terminology are introduced. Students will investigate medical/dental sociological principles which influence health care systems. Students will be able to discuss pertinent aspects of current public health issues and relate them to their future roles as health professionals.

4240 Ethics in Professional Practice (1). Study of ethics and ethical issue related to the practice of dental hygiene. Includes application of ethical principles to real-life situations.

4260 Senior Seminar (2). Problems and strategies in preparing for the clinical practice of dental hygiene are discussed in this course. All courses in the dental hygiene curriculum are used to synthesize information 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.

4260C Dental Hygiene Clinic IV (4). 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.

4320 Special Patient Care Practicum (2-4). This practicum is designed to provide the dental hygiene student hands on experience with the medically compromised patient. Patients seen in the Special Patient Care Clinic include individuals with complex health histories such as, transplant patients, oncology patients, geriatric patients. In addition, the dental fear patient presents another challenge in management.

4330 Introduction to Oncology and Practicum (2-4). Field experience designed to provide the student with personal observation of oncology patients undergoing the 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.

4340 Community Dentistry Practicum (2-4). With the assistance of the faculty, the student will select a target population within a community for which a dental health program is needed. Through on-site activities, in a rural community or a target population within a community, the student will identify leaders, access needs, and formulate and submit a dental health plan for the target population.

4350 Periodontal Therapy Practicum (1-4). This course is designed for the dental hygiene student who desires increased experience with periodontal skills. The course involves practical experience in the graduate periodontology clinic working with a periodontology resident. Two clinic sessions per week; one seminar scheduled weekly.

4360 Practice Management Practicum (3). 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.

4500 Seminar in Health Care Issues (1-2). This course focuses on health care issues and trends impacting the health care provider. Health care options and roles will be discussed.

4600 Advanced Clinic Concepts and Practicum (2-4). This course is designed for degree completion and graduate dental hygiene students and will expand upon students’ basic knowledge and skills in the dental hygiene process of care. Current research on enamel sealants, non-surgical periodontal therapy, infection control and fluoride therapy will be included.

4620 Principles in Dental Hygiene Education (3). 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.

4625 Dental Hygiene Administration (2). This course is designed for the post-certificate dental hygiene student. Major topics 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.

4630 Practicum in Dental Hygiene Administration (2-4). 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.

4635 Practicum in Clinical Supervision (2-4). This course is designed for the dental hygiene student who desires independent study of a particular problem or areas of interest in dental hygiene. In this particular practicum, the course will involve actual teaching and evaluation experiences in the first year dental hygiene clinic.

4640 Student Teaching and Conference I (2-4). Actual experiences in preparing and conducting classroom and clinical sessions under the supervision of a supervising professor. Students will have an opportunity of applying knowledge gained in DH 4620 Principles of Dental Hygiene Education.

4650 Student Teaching and Conference II (2-4). 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.

4660 Independent Study in Dental Hygiene (1-4). 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.

4680 Dental Hygiene Clinical Instruction I (2-4). Students must complete DH 4640 prior to enrolling in this course. Continued development of competency as a clinical instructor under the supervision of the dental hygiene faculty.

4685 Dental Hygiene Clinical Instruction II (1-4). A continuation of DH 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.

4750 Geriatric Oral Health Promotion and Education (1-5). This course is designed to enhance knowledge, attitudes, behavior and clinical care directed at geriatric oral health promotion and education. It is designed for dental hygienists and other health care providers who work with the older adult. Teaching methods include seminar, self-instructional modules and a community-based practicum. Offered: Fall Semester
School of Education

347 School of Education
615 E. 52nd Street
(816) 235-2236 Dean's Office
(816) 235-2234 Student Services
Fax: (816) 235-5270
education@umkc.edu
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Interim Dean:
Linda L. Edwards
Assistant Deans:
Jerry Cooper, Bruce Jones, Lori Reesor
Division of Counseling and Educational Psychology Chair:
Nancy Murdock
Division of Curriculum and Instructional Leadership Chair:
Sue Vartuli (Interim)
Division of Urban Leadership and Policy Studies Chair:
Bruce Jones
Director of Teacher Education:
Susan Adler

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 18 programs, offering bachelor of arts, master of arts, educational specialist 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 that of empowering professionals as 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 overall goal of the School of Education is the development of broadly educated, competent practitioners who are able to engage in critical and cooperative inquiry rather than act merely as functionaries in an education system. The School aspires to provide for an increasing diversity of educational specialists who are grounded in both theory and practice and can deal effectively with the problems and needs of a culturally, socially and politically diverse society.

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 region in positive and meaningful ways; and
- To make original contributions to the broad field of professional education through basic and applied research by both faculty and students.

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 Office of Student Services is a referral and resource for all students in the School of Education (including pre-education majors). Primary responsibilities are to provide quality advising for undergraduates and to coordinate the processing of certification. The staff also assists with student recruitment events, contacts with prospective students, admissions to teacher education, and School of Education scholarships. The goal of Student Services is to provide support and referral services to students in the School of Education to facilitate a successful academic experience.

The Office of Student Services provides enhanced communication between students and other campus offices. The office is charged with coordinating the school’s commencement ceremony and other student-centered activities. The office staff also works with the School of Education’s student organizations to provide programming of interest to all School of Education students.
Scholarships
The School of Education has the following named scholarships to offer students enrolled in an education degree program. All scholarships are formally announced in January, with selection completed in March for awarding the following academic year. Application materials are available in January from the Education Student Services Office. All scholarship recipients are selected by the School of Education Scholarship Committee.

**George and Grace Fox Scholarship**
This scholarship was established to assist students interested in preparing for a career in the correction and prevention of reading disabilities in a college, university or public school setting.

**Helen Lee Stevens Scholarship**
Established to honor a pioneer faculty member in counseling psychology, the Helen Lee Stevens scholarship is awarded to entering counseling psychology doctoral students who demonstrate excellent academic potential. The faculty of the Division of Counseling, Educational Psychology and Exercise Science name the recipient of this award. There is no application.

**UMKC School of Education Alumni Association Board Scholarship**
This scholarship was established through the diligence of the School’s Alumni Association. A deserving graduate student in the School of Education is awarded the scholarship annually.

**Kansas City Elementary Teachers’ Club Scholarship**
This scholarship was established by the College Club in honor of longtime kindergarten teacher, Esther Teague. Scholarships are awarded to deserving education majors entering their final year of teacher education.

**Kansas City Elementary Teachers’ Club Scholarship**
This scholarship, endowed by the Kansas City Elementary Teachers Club, is for elementary or secondary education majors preparing to student teach.

**Lena and Haddon Hill Scholarship**
Endowed by Professor Emeritus Shirley A. Hill in honor of her parents in 1993, this scholarship is awarded to students who plan a career teaching mathematics at any level. Preference is given to females.

**Pallas K. Cockefair Scholarship**
This scholarship was established to assist full-time students in the teacher education program.

**Wheadon Bloch Scholarship**
Established in 1990 in honor of Professor Emeritus Wheadon Bloch, this scholarship supports a graduate student who has excellent academic, research and leadership skills. Preference given to students in Higher Education Administration.

**Patricia J. Gier Memorial Scholarship**
In recognition of Patricia J. Gier, this scholarship is available to an undergraduate or graduate student pursuing a degree in teacher education. Preference may be given to a non-traditional female student.

**Dr. Phyllis L. Bernstein Scholarship**
Doctoral students currently enrolled in the School of Education’s Counseling Psychology Program may apply. Criteria for selection include academic achievement, financial need and skills in interpersonal relations as demonstrated by leadership in campus or community involvement.

**Hazel Browne Williams Scholarship**
A scholarship for minority education students was established in honor of Hazel Browne Williams, the first black female professor at the University of Kansas City and the School of Education.

**Hugh Speer Fellowship**
Established to honor the first dean of the UMKC School of Education, the Hugh Speer Fellowship provides financial support for graduate students who are community college employees or are interested in studying community college administration.

**Ruth G. & Phillip W. Snyder Scholarship**
A scholarship is awarded annually to an elementary education major or someone involved in elementary schools.

**George and Grace Fox Fellowship**
This fellowship was established to assist a doctoral student interested in preparing for a career in the correction and prevention of reading disabilities in a college, university or public school setting. The recipient carries out research and scholarly activities under the direction of language and literacy faculty.

**College Club Esther Teague Scholarship**
This scholarship was established by the College Club in honor of longtime kindergarten teacher, Esther Teague. Scholarships are awarded to deserving education majors entering their final year of teacher education.

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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 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; coordinating their major activities, projects and programs; aiding 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.

Library Facilities
Education books and journals, especially those pertaining to current issues and fully indexed periodicals, are continually and systematically added to the University’s Miller Nichols Library. The serial holdings include more than 90 percent of the listings in the Education Index for the past 10 years. Current information is available at http://www.umkc.edu/library. The education section of the Kansas City Public Library, the Truman Presidential Museum & Library and the Linda Hall Library of Science and Technology (adjoining the campus) provide valuable supplements to the UMKC facilities.

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.umkc.edu/careers.

Computer Laboratory
The School of Education Computer Laboratory is available for all UMKC students and School of Education faculty.

Office of Continuing Education
Through Continuing Education, hundreds of courses are offered to teachers and other community members throughout the Greater Kansas City area. Courses are offered throughout the year at numerous locations and in various time frames. For additional information, call (816) 235-1188 or visit their Web site at http://www.umkc.edu/education.

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, Mental Health, Marriage and Family, and Substance Abuse
- Ed.S. Counseling and Guidance; Emphasis Areas: School Counseling, Mental Health, Marriage and Family, Substance Abuse
- Ph.D. Counseling Psychology

Division of Curriculum and Instructional Leadership
Interim Chair:
Sue Vartuli, Ph.D.
(816) 235-2241

Areas of Study and Degrees
- B.A. Early Childhood Education
- B.A. Elementary Education
- B.A. Middle School Education (Science, English, Mathematics, Social Studies)
- B.A. Secondary Education; Certification areas: Art, English, Foreign Language (French, German, Spanish), General, Mathematics, Natural Sciences (Biology, Chemistry, Earth Science, Physics) and Social Sciences
- M.A. Curriculum and Instruction; Emphasis Areas: Subject Matter Specialty, Elementary, Early Childhood, General, Multicultural Education, and Teaching English to Speakers of Other Languages
- M.A. Reading Education (Elementary, Secondary, Special)
- M.A. Special Education (Learning Disabilities and Behavior Disorders)
- Ed.S. Curriculum and Instruction; Emphasis Areas: Subject Matter Specialty, Early Childhood, Elementary or Middle School, and Curriculum Theory and Leadership
- Ed.S. Reading Education
- Ph.D. Interdisciplinary (Education and other disciplines)
(See School of Graduate Studies http://www.umkc.edu/sgs)
Division of Urban Leadership and Policy Studies in Education

Chair:
Bruce Anthony Jones, Ph.D.
(816) 235-2716

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. Education (PK-12 Administration)
- Ph.D. Interdisciplinary (Urban Leadership and Policy Studies in Education with other disciplines) (See School of Graduate Studies http://www.umkc.edu/sgs)

Teacher Education Programs

Advising
Students who have declared an education major receive academic advising through the School of Education Student Services Office, Room 245. In addition, all students are assigned a faculty adviser who will be available for assistance in program and career planning.

Professional 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. Professional 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.

Students with freshman or sophomore status considering a teaching career are strongly encouraged to seek advisement in the School of Education Student Services Office.

Admissions

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 the completion of 60 hours of college credit with a cumulative GPA of 2.75 prior to a fall semester. The priority application deadline is April 1, and all applications are due by July 1. The application deadline for the accelerated program is April 1. Non-education majors on admission to the accelerated option, which begins only during the summer semester and concludes at the end of the following winter semester. Students must have completed all general education courses specifically required for certification.

1. Initial admission at the freshman or sophomore level will be to the College of Arts and Sciences in accordance with regular UMKC admissions standards. For students interested in music education, admission will be to the College of Arts and Sciences in accordance with the Conservatory of Music, which is discussed further in that section of the catalog.

2. Admission to Teacher Education:
- Completion of a majority of specific pre-requisite and subject area course work with a GPA of 2.75;
- Submitted a score from the ACT or SAT (if graduated from High School in past 5 years); A score of 235 or greater on each segment of the College Basic Academic Subjects Examination (C-BASE);
- Completion of an oral communications class, English Composition I & II, and a required math class or its equivalent with grades of C or better (students who have less than a C grade in mathematics may take the subject area CLEP);
- Acceptance by the Teacher Education Admissions Committee based on a letter of application from the student stating his or her reasons for choosing teacher education and two letters of recommendation indicating an appropriate disposition to help students learn;
- Students must have passed a competency exam in basic technology skills or completed a three hour computer literacy course;
- Students must pass an FBI background check

3. Admission to student teaching requires:
- Recommendations from methods teachers;
- A cumulative GPA of 2.75;
- A subject area GPA of 2.5;
- Review and approval of professional portfolio;
- Middle school and secondary education majors must have passed the Missouri PRAXIS;
- Students must pass an FBI background check

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.

Accelerated Option for Secondary Teacher Education Program

Students who hold a bachelor’s degree in the field they intend to teach at the secondary level may be eligible for admission to an accelerated option to earn teacher certification. Acceptance will be determined by the Teacher Education Faculty Admissions Committee. Applicants must submit the same materials as cited above prior to April 1 to be considered for admission to the accelerated option, which begins only during the summer semester and concludes at the end of the following winter semester. Students must have completed all general education and subject-area coursework required for certification to be eligible for this option. There is no accelerated option for students wishing to be early childhood, elementary or middle school teachers.

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 98 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 94 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 general education, subject area and professional education courses that are 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 for teacher certification. Requests for certification are initiated by students through the School of Education. For qualified individuals, the School of Education will make recommendations to state departments. Alumni who have completed a certification program also file their requests for certification renewals and certification to different states through the UMKC School of Education Student Services Office.

The certification manager in the School of Education Student Services Office serves as a certification officer for teachers, counselors and principals at UMKC.

Certification application materials and information for Missouri can be obtained in the UMKC School of Education Student Services Office or by contacting the state at http://www.dese.state.mo.us/divteachqual/teachcert/index.html. Certification application materials and information for Kansas can be obtained in the UMKC School of Education Student Services Office or by contacting 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 advisor 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 two sets of 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:

- 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)
- Early Childhood Teacher (birth-3rd grade), B.A. Early Childhood Education
- Secondary Teacher (9-12), B.A. secondary education/subject matter specialty: English, mathematics, social studies, science (biology, chemistry, earth science, or physics), and unified science (requires an emphasis in biology, chemistry, Earth science, or physics).
- Teacher (K-12), B.M.E. (Bachelor of Music Education) music education/choral/instrumental, 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 (1-6) M.A. educational administration/elementary (initial); Ed.S. educational administration/elementary (advanced)
- Principal (9-12) 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/Learning Disabilities (K-12), M.A. special education/learning disabilities**
- Mild/Moderate/Behavior Disorders (K-12), M.A. special education/behavior disorders**
- Superintendency, Ed.S. educational administration

*Kansas and other state certification subjects and levels are similar. Contact the School of Education Student Services Office for information.

**After June 2005, these will no longer be available. Cross-categorized special education will be offered instead.

Temporary Authorization Certification
The State of Missouri allows individuals who hold a bachelor’s degree to be temporarily certified to teach, provided the individual is employed as a teacher and completes a minimum of 9 credit hours per year toward a state-recognized certification program. The Missouri school district that wishes to employ such an individual for a teaching position must provide a letter that states their intent to hire this individual under a temporary authorization certificate. Please contact Student Services at (816) 235-2234 for more 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.

**Affidavit of Moral Character**
Section 168.031 of the Missouri School Law mandates the following:

“No person shall receive or hold any certificate who does not present evidence of good moral character.”

Students should obtain forms to document good moral character in the School of Education Student Services Office, Room 245, when applying for admission. Prospective teachers are required to complete an FBI background check.

**State of Missouri Grade-Point Average Requirement**
All persons certified to teach in public elementary and secondary schools in Missouri, except for non-academic vocational and 45- and 90-day substitute teachers, must have an overall GPA of 2.5 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 take the Praxis II Specialty Area Test, appropriate to their field of study, prior to graduation for certification in Missouri. All test results must be reported before any application for teacher certification can be endorsed by 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. Applications for Missouri teacher certification cannot be processed until the appropriate certification examination score has been achieved.

**Graduation 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 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 schedule of classes and on each student’s registration materials.

**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

Early childhood education majors must complete 122 specific credit hours for a single degree. Elementary education students must complete 127 specific credit hours for a single degree. Middle school and secondary education students complete 120 to 140 credit hours for a single degree based on the area of emphasis. Music education students receive a bachelor of music education from the Conservatory of Music. Students may contact the School of Education Student Services Office for specific program information.

Students in elementary and secondary education 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. Please contact the advising office of the College of Arts and Sciences for more details.

**Bachelor of Arts: Early Childhood Education**
Students who complete this 126-hour program will earn the bachelor of arts in early childhood education (birth to grade 3). Successful completion of this program includes mastery of noncourse competencies in CPR/First Aid and completion of a professional portfolio. 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 a few additional classes also will allow certification for grades 1-6.

**General Education Preparation**

**Humanities and Language Arts**
- English Composition I 3
- English Composition II 3
- Advanced Composition Course 3
- Fund. of Effective Speaking & Listening 3
- Elementary Education Music Methods 3
- Creative Activities 3

**Social Sciences**
- American History 3
- American Government 3

**Select One Course**
- Economics 3
- Geography 3

**Natural Sciences/Mathematics**
- Biology with laboratory 4
- Earth Science or Physical Science with laboratory 5
- Number Systems & Applications 3

**Pre-Education**
To be completed prior to Professional Semester 1
- TE 400 Child Development 3
- TE 401 Children’s Literature 3
- TE 403 Educational Psychology 3
- TE 404 Education of the Exceptional Child 3
- TE 440 Introduction to Early Childhood Education 3
- TE 428 Cultural Diversity and American Ed. 3

**Professional Semesters: Early Childhood Education**
Prior to entrance into the professional semester sequence (PS 1-4), the student will be required to complete 54 hours of general education and pre-education coursework.

**Professional Semester 1 (PS 1)**
- TE 405 Field Experience I 1
- TE 406 Field Experience II 1
- TE 415 Reading I 4
- TE 441 Literature Development: Language Acquisition 3
- TE 442 Observation, Assessment and Screening 3
- TE 451 Child Guidance within the Classroom 3

**Professional Semester 2 (PS 2)**
- TE 446 Reading II 4
- TE 444 Mathematics in Early Childhood and Elementary Schools 3
- TE 445 Science in Early Childhood and Elementary Schools 3
- TE 450 Integrating Curriculum in Early Childhood Education 3
- TE 457 Infant and Toddler Care and Education 3
- TE 458 Practicum for Learning About Infants and Toddlers 1
Professional Semester 3 (PS 3)
TE 412 Language Arts in Elementary and Middle Schools 3
TE 447 Social Studies in Early Childhood and Elementary Schools 3
TE 452 Family and Program Relationships in Early Childhood Education 4
TE 453 Learning from Parents 2
TE 455 Student Teaching I (pre-kindergarten) 6

Professional Semester 4 (PS 4)
TE 454 Human Relations in the Early Childhood classroom 3
TE 456 Student Teaching II (K-3) 10
TE 459 Early Childhood Program Management and Advocacy 2

A 2.75 cumulative GPA is required at completion of the program. Grades of C or better are required in all subject matter and professional education classes.

Bachelor of Arts: Elementary Education
Completion of the 127-credit-hour elementary education program, including mastery of non-course competencies in CPR/First Aid and completion of a professional portfolio results in eligibility for UMKC’s recommendation for elementary certification (grades 1-6) in Missouri, contingent on meeting state testing requirements.

General Education and Subject Matter Requirements

Language Arts
- English Composition I & II 6
- Advanced Composition Course 3
- Oral Communications 3
- Literature Course 3
- Foreign Language* 10

*Students who completed two years of the same foreign language in high school may satisfy one semester of foreign language. Students who completed four years of the same foreign language in high school may satisfy two semesters.

Social Studies
- American History 3
- World History 3
- Economics 3
- American Government 3
- Geography 3

Science and Mathematics
- Biology with laboratory 4
- Physical Science, Earth Science, or Chemistry/Lab 5
- Number Systems Applications 3
- Elementary Geometry 3
- Math 200 or above 3

Physical Education
- Lifetime Fitness 1
- Lifetime Fitness Laboratory 1

Professional Education Preparation
- CONS 285 Music Methods 3
- TE 428 Cultural Diversity and American Education 3

Professional Education Requirements:
Prior to entrance into the professional semester sequence (PS 1-4), the student will be required to complete 65 hours of general education and subject matter background.

Professional Semester 1 (PS 1)
TE 400 Child Development 2
TE 403 Educational Psychology 3
TE 405 Field Experience 1
TE 408 Introductory Foundations 3
TE 415 Reading I 4
TE 404 Education of the Exceptional Child 4

Professional Semester 2 (PS 2)
TE 402 Creative Activities 3
TE 406 Field Experience 1
TE 409 General Methods I 3
PE 401 Health Teaching in Schools 1
PE 401L Health Teaching in Schools Laboratory 1
TE 416 Reading II 4
TE 417 Science Methods 3

Professional Semester 3 (PS 3)
PE 312 Physical Education for Elementary School 1
PE 312L Laboratory Experiences for Physical Education for the Elementary School 1
TE 401 Children’s Literature 3
TE 407 Field Experience 1
TE 410 General Methods II 2
TE 412 Language Arts Methods 3
TE 413 Mathematics Methods 3
TE 418 Social Studies Methods 3

Professional Semester 4 (PS 4)
TE 419 Student Teaching 12

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.

Bachelor of Arts in 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. The subjects available include:

- Art
- Biology
- Chemistry
- Earth Science
- English
- Foreign Language
- Mathematics
- Physics
- Social Sciences
- *Music Education majors should check degree requirements with the Conservatory of Music

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. There is an accelerated option for this degree program that can be completed in one year. Please call Student Services at (816) 235-2234 for more information.

Eligibility for UMKC’s recommendation for secondary certification (grades 9-12) in Missouri is contingent upon completion of the degree course requirements, mastery of non-course competencies in CPR/First Aid, completion of a professional portfolio, and meeting state testing requirements.
A typical program for students intending to teach an arts and sciences subject includes:

### General Education

**Humanities and Language Arts**
- English Composition I and II: 6
- Oral Communications: 3
- Literature: 3
- Fine Arts: 3

**Natural Sciences and Mathematics**
- Science*: 8-10
- Mathematics (College Algebra or higher): 3
* Must include Chemistry, Earth, or Biological and Physical Science, and must include 1 laboratory.

**Social Science**
- Social Science Elective: 3
- American History: 3
- Political Science: 3

**Physical Education**
- Lifetime Fitness: 1
- Lifetime Fitness Laboratory: 1

### Subject Matter Area

Students must consult with their faculty advisers 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. Students have the opportunity to complete 3-12 hours of general education and/or subject matter requirements during each of the first three professional semesters.

### Professional Education

**Professional Semester 1 (PS 1)**
- TE 420 Adolescent Development: 2
- TE 403 Educational Psychology: 3
- TE 405 Field Experience: 1
- TE 408 Introductory Foundations: 3

**Professional Semester 2 (PS 2)**
- TE 404 Education of the Exceptional Child: 3
- TE 422 Field Experience: 1
- TE 424 General Methods I: 2
- TE 427 Reading in the Secondary School: 3

**Professional Semester 3 (PS 3)**
- TE 423 Field Experience: 1
- TE 425 General Methods II: 2
- TE 43x Special Methods (subject specific): 3
- TE 428 Cultural Diversity & American Education: 3

**Professional Semester 4 (PS 4)**
- TE 437 Student Teaching*: 12-14
*Students earning K-12 certification complete 7 credit hours of student teaching at the elementary level and 7 credit hours at the secondary level. All other secondary majors complete 12 credit hours of student teaching.

A 2.75 cumulative GPA is required at completion of the program. Grades of C or better are required in all subject matter and professional education classes.

### Bachelor of Arts in Middle School Education

The B.A. in middle school education is taken with a concentration in the subject area to be taught. The subjects available include:
- Mathematics
- Social Studies

General education and subject matter requirements will 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 will be required to complete general education and subject area requirements that were not part of their prior degree program in addition to the professional education requirements.

Eligibility for UMKC’s recommendation for middle school certification (grades 5-9) in Missouri is contingent upon completion of the degree course requirements, mastery of non-course competencies in CPR/First Aid, completion of a professional portfolio, and meeting state testing requirements.

A typical program for a student intending to teach at the middle-school level includes:

**General Education**

**Humanities and Language Arts**
- English Composition I and II: 6
- Oral Communications: 3
- Literature: 3
- Fine Arts: 3

**Natural Sciences and Mathematics**
- Science*: 8-10
- Number Systems and Applications: 3
* Must include Chemistry, Earth, or Biological and Physical Science; each must include a laboratory.

**Social Studies**
- American History: 3
- Social Science electives*: 6
* Choose from Political Science, Geography, Economics, Sociology, or Psychology.

**Physical Education**
- Lifetime Fitness: 1
- Lifetime Fitness Laboratory: 1
- Health Teaching in Schools: 1
- Lab Experiences Health Teaching: 1

**Subject Matter Area**

Students must consult with an adviser concerning specific requirements. Students may complete 30 hours in a single discipline, or 21 hours in each of two separate disciplines for certification. Students have the opportunity to complete 3-12 hours of general education and/or subject matter requirements during Professional Semesters 1-3.

**Professional Education**

**Professional Semester 1 (PS 1)**
- TE 403 Educational Psychology: 3
- TE 405 Field Experience: 1
- TE 415 Reading I: 4
- TE 428 Cultural Diversity and American Education: 3
- TE 460 Middle School Philosophy & Curriculum: 2
- TE 462 Middle School Organization & Curriculum: 2

**Professional Semester 2 (PS 2)**
- TE 409 General Methods I: 2
- TE 404 Education of the Exceptional Child: 3
- EDUC 439 Reading in the Content Area: 3

**Professional Semester 3 (PS 3)**
- TE 406 Field Experience II: 1
- TE 409 General Methods I: 2
- TE 404 Education of the Exceptional Child: 3
- EDUC 439 Reading in the Content Area: 3
Professional Semester 3 (PS 3)
TE 407 Field Experience III 1
TE 410 General Methods II 2
TE 412 Language Arts in the Elementary and Middle School 3
TE 420 Adolescent Development 3

Professional Semester 4 (PS 4)
TE 461 Student Teaching in the Middle School 12
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.

Centers and Projects

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 much-needed 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. During the summer, programming is also provided for children ages 6 to 11 years. 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.

Special Note on Courses
The School of Education recently implemented a new series of curricular designations under which courses are listed: CPCE (Counseling Psychology Counselor Education), EDCI (Education Curriculum and Instruction), EDSP (Education Research and Psychology). EDCI (Counseling Psychology Counselor Education), EDCI (Education Curriculum and Instruction), EDSP (Education Research and Psychology), EDCI (Counseling Psychology Counselor Education), EDCI (Education Curriculum and Instruction), EDSP (Education Research and Psychology), EDCI (Counseling Psychology Counselor Education), EDCI (Education Curriculum and Instruction), EDSP (Education Research and Psychology), EDCI (Counseling Psychology Counselor Education), EDCI (Education Curriculum and Instruction), EDSP (Education Research and Psychology), EDCI (Counseling Psychology Counselor Education), EDCI (Education Curriculum and Instruction), EDSP (Education Research and Psychology), EDCI (Counseling Psychology Counselor Education), EDCI (Education Curriculum and Instruction), EDSP (Education Research and Psychology), EDCI (Counseling Psychology Counselor Education), EDCI (Education Curriculum and Instruction), EDSP (Education Research and Psychology), EDCI (Counseling Psychology Counselor Education), EDCI (Education Curriculum and Instruction), EDSP (Education Research and Psychology), EDCI (Counseling Psychology Counselor Education), EDCI (Education Curriculum and Instruction), EDSP (Education Research and Psychology), EDCI (Counseling Psychology Counselor Education), EDCI (Education Curriculum and Instruction), EDSP (Education Research and Psychology), EDCI (Counseling Psychology Counselor Education), EDCI (Education Curriculum and Instruction), EDSP (Education Research and Psychology), EDCI (Counseling Psychology Counselor Education), EDCI (Education Curriculum and Instruction), EDSP (Education Research and Psychology), EDUC (Education and Urban Leadership), PE (Physical Education), and TE (Teacher Education).

Counseling Psychology and Counselor Education Courses
420 Cslng Techniques for Educators & Other Human Services Personnel (3). 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.

Curriculum and Instruction Courses
497 Individual Study (1-6). Guided study of a selected topic in curriculum and instruction. Prerequisite: Permission of instructor.
Education Courses

160 Career and Life Planning (2). 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.

189 Special Topics (1-6). 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.

434 Classroom Diagnosis and Correction of Reading Problems (3). Procedures for the diagnosis and correction of reading problems which are appropriate for classroom teachers. Prerequisite: TE 415.

439 Content Reading and Language Development (4-12) (3). 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).

440 Literature for Adolescents (3). 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.

497 Individual Study (1-6). Guided study of a selected topic in education. Prerequisite: Permission of instructor.

Physical Education Courses

175 Lifetime Fitness (1). 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.

175L Lifetime Fitness Lab (1). 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.

312 Physical Education for the Elementary Schools (1). 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 PE 312L. Prerequisite: Elementary Education Major; Required.

312L Laboratory Experiences in Physical Educ for the Elementary School (1). This course consists of laboratory teaching experiences, with skill theme combinations of games, gymnastics, dance & fitness. Must be taken concurrently with PE 312.

401 Health Teaching in the Schools (1). 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.

401L Health Teaching in the Schools Lab (1). 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.

Special Education Courses

407 Educating Exceptional Children and Youth (3). 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, multi-handicapped and gifted.

426 Apprenticeship Teaching in Special Education (4). Observation and practice teaching under supervision in appropriate special education settings. Prerequisites: Consent of instructor abd submitted application.

Teacher Education Courses

130 Number Systems and Related Topics (3). 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

140 Geometry for Elementary Teachers (3). 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

350 Multi-media Production for the Classroom (1). 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.

400 Child Development (3). Intellectual and social development from birth through middle childhood and their implications for the educative process.


402 Creative Activities (3). Basic principles of creativity and their application in the teaching of art, creative dramatics, creative rhythmic interpretation and creative writing will be explored. An emphasis on interrelationship of these areas and their integration into the curriculum. Students will conduct integrated arts experience in elementary classroom settings. Winter.

403 Educational Psychology (3). 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.

404 Education of the Exceptional Child and Youth (3). Students will be introduced to identification and educational intervention procedures for educating exceptional children and adolescents in mainstream classroom situations. Fall and Winter.

405 Field Experience (1). To introduce students to a critical examination of the complex nature of teaching, learning, children and schooling in general - in school and preschool settings. Students will be expected to spend 30 hours at classroom sites during the semester.

406 Field Experience - Early Childhood Elementary and Middle (1). Taken in conjunction with the elementary and middle school methods courses. Students are expected to spend 60 hours at classroom sites during the semester.

407 Field Experience - Elementary and Middle 3 (1). 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.

408 Introductory Foundations (3). 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. Fall and Winter.

409 General Methods Elementary and Middle 1 (3). This course will focus primarily on school and classroom organization and management, detailed lesson planning, use of instructional materials and media and the analysis of teaching through videotaping. Winter.

410 General Methods Elementary and Middle 2 (2). The focus will be on basic curriculum development, developing and understanding of teaching/learning styles and varied instructional methodologies. Continued emphasis will be placed on reflective thinking through class discussion, modeling activities and written assignments. Fall.

412 Language Arts in the Elementary and Middle School (3). 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.

413 Mathematics in Elementary and Middle Schools (3). 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.

414 General Methods Elementary and Middle - 3 (2). To summarize and synthesize the pre-service educational experience. To become knowledgeable about the realities of a school life in a “real” classroom. Winter.

415 Reading 1 (4). An examination of basic instructional concepts and practices used to teach reading. Instructional concepts are applied during a supervised field experience. Fall.
416 Reading 2 (4). Focus on reading assessment and instructional techniques effective in classroom situations. Includes such topics as: the interpretation of test scores, instruction to meet pupil needs, management of groups and content area reading. A supervised urban field experience provides a means for applying teaching and assessment knowledge. Winter.

417 Science Methods in the Elementary and Middle School (3). The science methods course is designed to prepare elementary teachers to teach science as both content (major conceptual schemes) and process skills (problem solving). A variety of “hands-on, minds-on” activities are utilized. An additional contact hour (for a total of 4 per week) is scheduled due to the laboratory orientation. Winter.

418 Social Studies Methods in the Elementary and Middle Schools (3). 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.

419 Student Teaching in Elementary School (6-12). Observation and student teaching under supervision in an elementary school. Winter.

420 Adolescent Development (3). 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.

422 Field Experience - Secondary 2 (1). A continuation of Field Experience Secondary 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.

423 Field Experience - Secondary 3 (1). Field Experiences during the third semester will be coordinated with the special methods class. Students will be expected to spend 60 hours at classroom sites during the semester.

424 General Methods - Secondary 1 (2). 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.

425 General Methods - Secondary 2 (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.

428 Cultural Diversity and American Education (3). 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. Offered: Fall, Winter, Summer.

432 Special Methods of Teaching Secondary English (3). This course stresses the understanding, skills and information pertinent to teaching English/language arts in middle schools and junior and senior high schools. Fall.

433 Special Methods of Teaching Secondary Mathematics (3). 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.

436 Special Methods of Teaching Secondary Social Studies (3). 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.

437 Student Teaching in Secondary School (6-12). Observation and student teaching under supervision in a secondary school. Fall.

440 Introduction to Early Childhood Education (3). 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.

441 Literacy Development 1 (3). An introduction to how language is acquired and how to facilitate oral language expression in early childhood classrooms.

442 Observation, Assessment & Screening in Early Childhood Classrooms (3). This course is designed to identify developmentally appropriate ways to measure and evaluate child growth and development.

444 Mathematics in Early Childhood and Elementary Schools (3). 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.

445 Science in Early Childhood and Elementary Schools (3). 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.

447 Social Studies in Early Childhood & Elementary Schools (3). This course is designed to help students understand basic social studies concepts and pedagogy for young learners.

450 Integrating the Curriculum in Early Childhood Education (4). 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.

451 Child Guidance within the Classroom (3). 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.

452 Family and Program Relationships in Early Childhood Education (4). 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 Teacher Education 452, Learning from Parents, required).

453 Learning from Parents (2). Designed to provide students with direct experiences 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 children and recognition of parents as significant informants about their children. (Concurrent enrollment in Teacher Education 452, Family and Program Relationships, required).

454 Human Relations in the Early Childhood Classroom (3). 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.

455 Student Teaching in Preschool (6-10). Observation and student teaching under supervision in a preschool setting.

456 Student Teaching in Elementary, K through 3 (6-12). Observation and student teaching under supervision in an elementary school, grades K through 3.

457 Infant and Toddler Care and Education (3). 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.

458 Practicum for Learning About Infants and Toddlers (1). 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.”

459 Early Childhood Program Management and Advocacy (2). Students will begin to explore basic early childhood program components. Different types of advocacy will be presented, discussed, and implemented. Prerequisite: TE 440.

460 Middle School Curriculum (2). Provides an examination of middle school curriculum with an emphasis on developing interdisciplinary curriculum and instructional strategies appropriate to the middle school level learner. Curricular issues are examined within the context of middle school principles. Prerequisite: Admission to Teacher Education Program or consent of instructor. Offered: Summer/Fall.

461 Student Teaching in Middle School (6-12). Observation and student teaching under supervision in a middle school setting.
462 Middle School Principles and Organization (2). This course offers an overview of middle school goals, basic principles, and organization. The course will explore interdisciplinary teaming, flexible scheduling, exploratory and advisory programs and other aspects of middle school organization within the context of middle school goals and practices. Prerequisites: Admission to Teacher Education Program or consent of instructor. Offered: Summer/Fall concurrently with TE 460.

470 Philosophy and History of Science and Technology (3). 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.
School of Medicine

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Assistant Deans
- Diana Dark, M.D. (Saint Luke’s Hospital Programs)
- Kim McNeely, Ph.D. (Student Affairs)
- Alan R. Salkind, M.D. (Council on Selection)
- Bob I. Yang, Ph.D. (Council on Evaluation)
- Rose Zwerenz, M.D. (Truman Medical Center Lakewood Programs)

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 self-imposed standards of performance – standards that will be higher than those required legally. The professional physician is a morally responsible, action-oriented problem solver on behalf of people.

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 persuade that talent to 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.

Admissions Requirements
In combination with the College of Arts and Sciences and the School of Biological Sciences, the School of Medicine offers a six-year program leading to baccalaureate and doctor of medicine degrees. The student is required to complete both degrees. The program is designed primarily for high school seniors who are entering college, but prospective students with no more than 24 semester hours of earned college credit can be considered for admission. The curriculum is scheduled for 35 weeks in the first year and 48 weeks in each of the remaining five years.

Applicants for admission to the year 1 level of the combined program must meet the freshman admission requirements of the University. Applicants to Year 1 must take the American College Test (ACT), including the ACT Student Profile. The mailing address for information on application to the six-year combined program: Admissions Office/Enrollment Services, 120 Administrative Center, 5100 Rockhill Road, Kansas City, MO 64110-2499. The actual location for the Administrative Center is 5115 Oak Street.

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.

A student admitted to the combined program at UMKC is expected to meet the following admission requirements (one unit equals one year in class):

- Four units of English;
- Four units of mathematics;
- Three units of science, including one unit of biology and one unit of chemistry;
- Three units of social studies;
- One unit of fine arts;
- Two units of foreign language.

In addition, one-half unit of computer science is highly recommended. Students whose high school does not offer biology, chemistry, foreign language or computer science are encouraged to contact the Council on Selection at the School of Medicine.

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, refer to the annual announcement available from the Office of Admissions/Enrollment Services.
An alternative path is available for extended study. Because this is a state-assisted university, primary consideration is given to Missouri residents. However, approximately 10 to 15 out-of-state students may be accepted.

**Application Fee and Timetable for Applying**

A $35 application fee is required of all resident applicants. A $50 application fee is required of all nonresident applicants. 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. 15 of the year preceding the fall semester for which applying.** (Applicants are urged to apply as soon after Aug. 1 as possible.)

**Estimated Yearly Expenses**

<table>
<thead>
<tr>
<th>Fees</th>
<th>Years 1-2</th>
<th>Years 3-6</th>
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<tbody>
<tr>
<td>Resident</td>
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<tr>
<td>Nonresident</td>
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</table>

(a one-time expense)

All statements as to educational fees and other expenses are by way of announcement only for the school years covered by this catalog and are not to be regarded as offers to contract on the basis of those statements, inasmuch as the University expressly reserves the right to change any and all fees and other charges at any time, without any notice being given in advance of such a change.

**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.

**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; and the assistant dean for student affairs work together in recruitment and retention of students, including minority students.

Students enrolled in the combined baccalaureate/medical degree program 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’s Office of Student Affairs provides an added dimension of support to all medical students interested in improving their academic performance. The Medical School curriculum consistently provides increasingly challenging coursework, and students must continue to explore alternative study methods to meet these demands. The following services are offered:

**Basic Science Study Groups**

Study groups are available in the core basic science courses of the school curriculum. The groups consist of three to five students and a group facilitator/tutor, meeting once or twice a week. Test performance has consistently been enhanced for students actively participating in these groups. Therefore, all medical students are encouraged to participate fully.

Study-group leaders are selected on the basis of their own performance in the course, their abilities to communicate course content and the recommendations of course professors.

**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. 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. The assistant dean for student affairs is available to students on the Volker campus for academic and personal guidance. 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. For additional counseling, a clinical coordinator is available to students during these two years.

Each group of 11 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. Year 1 students are partnered with year 2 students as an additional support mechanism.

From year 3 through year 4, each student is a member of a 12-student unit assigned to a docent who teaches and counsels throughout these years of the curriculum. Each team of about 50 students, made up of four units, has 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 in the students’ last two years.

**Peer Counselors**

A group of medical students who have completed a training program in personal counseling is available to advise students in all levels of the program. They work with a faculty adviser.
Financial Aid
For the latest information on financial aid programs at UMKC see http://www.sfa.umkc.edu.

Medical Student Organizations

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.

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.

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.

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 Association - Medical Student Section
Dedicated to representing medical students, improving medical education, developing leadership, and promoting activism for the health of America.

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.

International Federation of Medical Students’ Association
IFMSA’s mission is to offer physicians a comprehensive introduction to global health issues. Through programming and opportunities, it develops culturally sensitive students of medicine, intent on influencing the transnational inequalities that shape the health of our planet. IFMSA is an international federation with broad representation and close relations with medical students’ associations all over the world.

Publications
A monthly publication of the school, P.R.N., provides information on school programs, policies, and student activities, and is distributed 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.

Awards
- Alpha Omega Alpha - National Scholastic Honorary Society; charter awarded in 1985 to UMKC School of Medicine
- American Academy of Neurology Student Prize for Excellence in Neurology
- American College of Emergency Physicians R. R. Hannas, M.D. Emergency Medicine Award
- American College of Physicians Book Award
- American College of Physicians Clerkship Award
- American Medical Women’s Association Scholarship Achievement Citation
- Betty W. Hamilton Award for Excellence in Immunology
- Bryan Ross Bolden Memorial Scholarship
- Department of Surgery Award
- Drs. Beatty and Deloras Pemberton Scholarship
- Dr. and Mrs. Bharat Shah Academic Scholarship
- Edward J. Twin, M.D. Physician/Humanist Award
- Family Health Foundation of Missouri Achievement Award
- The Founding Dean’s Founders Award
- The Lange Medical Publications Award
- The Laura L. Backus, M.D. Memorial Award for Excellence in Pediatrics
- The Leonard Tow Humanism in Medicine Awards presented by The Arnold P. Gold Foundation
- The Marilyn McGuyre Tournament Scholarship
- The Merck Manual Award for Outstanding Achievement in Medical Education
- Missouri State Medical Association Honors Graduate Award
- Pharmacology Achievement Award
- Rebecca Lefcourt, M.D. Award for Achievement in Ob/Gyn
- Ratilal S. Shah Medical Scholarship Fund
- Rebecca Lefcourt, M.D. Award for Achievement in Obstetrics/Gynecology
- Richard T. Garcia Memorial Award
- Richardson K. Noback Award for Clinical Excellence
- Roche Lab/Charles B. Wilkinson, M.D. Scholarship
- St. Louis Friends of UMKC School of Medicine Basic Science Award
- St. Louis Friends of UMKC School of Medicine Award for Research
- St. Louis Friends of UMKC School of Medicine Scholarship
- Shaffer Award for Community Service
- Dwight Stanford, M.D. Scholarship
- Society for Academic Emergency Medicine Award
- Thomas R. Hamilton, M.D. Memorial Award for Excellence in Microbiology
- Thomas R. Hamilton, M.D. Memorial Award for Excellence in Pathology
- UMKC School of Medicine Alumni Association Award for Excellence in Medical Education Award
- UMKC School of Medicine Alumni Association Outstanding Senior Partner Award
- UMKC School of Medicine Alumni Association Research Award
- UMKC School of Medicine Alumni Association Scholarship
- Western Friends of UMKC School of Medicine/ Harry S. Jonas Ambassador’s Award
- Western Friends of UMKC School of Medicine Scholarship
Curriculum
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.

Typical Curriculum - Six-Year Program

Year 1

<table>
<thead>
<tr>
<th>Medicine</th>
<th>Arts &amp; Sciences</th>
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</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>Medical Terminology</td>
<td>Learning Basic Medical Sciences</td>
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<tr>
<td>Introduction to Medicine I</td>
<td>General Chemistry I w/Lab</td>
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<td>Winter</td>
<td></td>
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<tr>
<td>Introduction to Medicine II</td>
<td>Psychology</td>
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<tr>
<td>Aging I</td>
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Year 2

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>Summer</td>
<td></td>
</tr>
<tr>
<td>Hospital Team Experience</td>
<td>Organic Chemistry w/Lab</td>
</tr>
<tr>
<td>History of Medicine</td>
<td>Cell Biology</td>
</tr>
<tr>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>Introduction to the Child</td>
<td>Human Biochemistry</td>
</tr>
<tr>
<td>Winter</td>
<td></td>
</tr>
<tr>
<td>Introduction to the Woman</td>
<td>Sociology - Life Cycles</td>
</tr>
<tr>
<td>Aging II</td>
<td></td>
</tr>
</tbody>
</table>

Courses for B.A. Degree*

- Genetics
- Sociology - Life Cycles
- Courses for B.A. Degree*

Courses for B.A. Degree*

- Genetics
- Sociology - Life Cycles
- Courses for B.A. Degree*

Courses for B.A. Degree*

- Genetics
- Sociology - Life Cycles
- Courses for B.A. Degree*
Year 3

Medicine
Clinical Skills
Introduction to Pharmacology (Independent Study)
CUES
General/Clinical Pathology
Medical Microbiology
Medical Neurosciences
Continuing Ambulatory Care Clinic

Arts & Sciences
Structure/Function III

Year 4

Medicine
Pharmacology
Behavioral Sciences in Medicine
Docent Rotation
Family Practice
Ambulatory Care Pharmacology (Independent Study)
Continuing Ambulatory Care Clinic

Arts & Sciences
Courses for B.A. Degree*

Year 5

Medicine
Psychiatry
Prescribing for Special Populations (Independent Study)
Obstetrics/Gynecology
Pediatrics
Family Medicine Preceptorship
Surgery
Elective
Docent Rotation

Year 6

Medicine
Docent Rotation
Emergency Medicine
Rationale Drug Prescribing (Independent Study)
Electives
Continuing Ambulatory Care Clinic

Arts & Sciences
Humanities/Social Sciences

* 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.

Requirements for Graduation

1. Minimum of 90 credit hours from the College of Arts and Sciences acceptable to the School of Medicine
2. Cumulative GPA of 2.7 to 4.0
3. Satisfactory completion, certified by the UMKC registrar, of requirements for the baccalaureate degree
4. Satisfactory completion of all required medical curriculum
5. Current certification in Advanced Cardiac Life Support
6. Three returns back to the College of Arts & Sciences
7. 38 months medical curriculum credit (34 for M.D.-only students)
8. Docent certification of clinical competence
9. Passing scores on USMLE Steps 1 and 2
10. 48 months of enrollment in the School of Medicine, years 3 to 6 (including M.D.-only students)
11. Three clinical electives, one of which must be direct patient care
Conservatory of Music

Performing Arts Center
4949 Cherry Street
(816) 235-2900
conservatory@umkc.edu
http://www.umkc.edu/conservatory

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

Dean:
Randall G. Pembrook
Associate Dean for Academic Affairs:
William E. Fredrickson

General Information

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 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) 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 Midwest Center for American Music, founded in 1967 as the Institute for Studies in American Music, stimulates interest in American music and encourages performances of works by American composers. To achieve these goals, a collection of books, manuscripts, research materials, musical scores and recordings has been assembled. Symposia, lectures and recitals are sponsored by MCAM to present different facets of American musical culture. Research projects in American music are encouraged, and several doctoral dissertations have been completed on research using materials from the institute’s collection.

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, Pep Band, Madrigal Singers, Heritage Chorale, Mens Chorus, Womens Chorus, Musica Nova, Opera/Musical Theatre Ensemble, Ensemble for Composers and Graduate Choir.

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.

Community Music & Dance Academy
The Conservatory’s Community Music & Dance Academy has the mission of bridging the national reputation and excellence of the UMKC Conservatory of Music 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 & 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. 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 offers the bachelor of fine arts, bachelor of arts, bachelor of music and bachelor of music education degrees. The specific degrees and their requirements are listed on the following pages.

Admissions: New Students
New students must meet the general requirements for admission to the University. Additionally, a 10-minute audition is required in the applicant’s major performance field to
Applied Music Courses

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. At the end of the semester, all students taking lessons for credit will perform before a jury composed of the appropriate faculty, with the exception of levels 100B and 100C. 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, must petition the composition faculty for permission to progress to the next appropriate class level. All students taking lessons for credit will perform before a jury composed of the appropriate faculty, with the exception of levels 100B and 100C. 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).
10. Students who are late for lessons, or who miss them, do so at their own loss. Lessons missed for personal reasons will be made up at the discretion of the instructor. 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 Conservatory 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, which requires seven semesters, and 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 except 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

All undergraduate Conservatory students are required to register for Conservatory 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.

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.

Minimum Core Requirements for All B.M. Degrees

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>History 101/102 or Political Science 210</td>
<td>3</td>
</tr>
<tr>
<td>English 110 Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>English 225 English II</td>
<td>3</td>
</tr>
<tr>
<td>Conservatory 154 Music Listening Laboratory (seven semesters)</td>
<td>7</td>
</tr>
<tr>
<td>Conservatory 154A Music Listening Laboratory: Non-Western Cultures</td>
<td>1</td>
</tr>
<tr>
<td>Conservatory 121,122,212,222A</td>
<td></td>
</tr>
<tr>
<td>Music Theory I-IV</td>
<td>12</td>
</tr>
<tr>
<td>Conservatory 129A,129B,229A,229B</td>
<td>4</td>
</tr>
<tr>
<td>Ear Training and Solfege</td>
<td>2</td>
</tr>
<tr>
<td>Conservatory 150 Introduction to Music Literature</td>
<td>3</td>
</tr>
<tr>
<td>Conservatory 323* Form and Analysis I</td>
<td>2</td>
</tr>
<tr>
<td>Conservatory 351, 352 History of Music in Western Civilization I, II</td>
<td>6</td>
</tr>
<tr>
<td>Conservatory 380/381 Basic Conducting - Choral/Instrumental</td>
<td>2</td>
</tr>
</tbody>
</table>

*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.

- Accordion: German 110 & 120, 10 hours
- Composition: Any foreign language 110 & 120, 10 hours
- Guitar: French, German or Italian 110 & 120, 10 hours
- Harpsichord: French or German 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: French, German or Italian 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: French, German or Italian 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 two languages.
Bachelor of Music in Music Composition

Music Composition Required Courses
(See minimum foreign language and core requirements)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conservatory 101-301* Applied Study</td>
<td>10</td>
</tr>
<tr>
<td>Ensemble** (Eight Semesters)</td>
<td></td>
</tr>
<tr>
<td>Communications 110 Fundamentals of Effective Speaking and Listening</td>
<td></td>
</tr>
<tr>
<td>Conservatory 133-134</td>
<td>4</td>
</tr>
<tr>
<td>Beginning Composition I, II</td>
<td></td>
</tr>
<tr>
<td>English 300-level Writing Intensive Course</td>
<td>3</td>
</tr>
<tr>
<td>Conservatory 233-234</td>
<td>4</td>
</tr>
<tr>
<td>Intermediate Composition I, II</td>
<td></td>
</tr>
<tr>
<td>Conservatory 235 Techniques of Electronic Music I</td>
<td>6</td>
</tr>
<tr>
<td>Conservatory 329 Advanced Ear Training</td>
<td>3</td>
</tr>
<tr>
<td>Conservatory 331A; 431 Orchestration I, III</td>
<td></td>
</tr>
<tr>
<td>Conservatory 333*** Advanced Composition (three semesters)</td>
<td>6</td>
</tr>
<tr>
<td>Conservatory 427 18th-Century Counterpoint</td>
<td>2</td>
</tr>
<tr>
<td>Conservatory 428 Contemporary Harmonic/Contrapuntal Styles</td>
<td>3</td>
</tr>
<tr>
<td>Conservatory 433 Composition Recital</td>
<td>3</td>
</tr>
<tr>
<td>Electives (Theory course 300 or above)</td>
<td>2(3)</td>
</tr>
<tr>
<td>Area of Concentration****</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>16-18</td>
</tr>
<tr>
<td>Successful completion of Conservatory 310, Keyboard Skills IV</td>
<td></td>
</tr>
</tbody>
</table>

* Students majoring in composition must complete level 301 secondary in any applied area.

** 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 Conservatory 301G Ensemble for Composers, though a minimum of two semesters of Conservatory 301G must be taken. It is expected that students enrolling for Conservatory 301G more than once will observe a different ensemble or ensembles in each time they enroll. Note:

1. 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, Madrigal Singers, Musica Nova, Percussion Ensemble and Zephyr Quintet. (Others may be added as the course develops.)
2. Course enrollment is done through the Associate Dean for Undergraduates Office, but assignment of students to particular ensembles will be done by the composition faculty in consultation with ensemble directors.
3. Composition faculty will be responsible for communicating with conductors regarding upcoming repertoire.

*** 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:

1. A portfolio of 2-3 representative scores and/or tape recordings of original work.
2. A complete list of original compositions by the petitioner.
3. Transcripts and other academic credentials.
4. A personal interview (at the discretion of the composition faculty).

Normally, petitions will be considered during the winter semester as a part of the admissions review process for the coming year. Maintenance of major status is required for eligibility for composition scholarships and fellowships. In order to maintain major status, two conditions must be met:

1. A minimum of a B- average in Music Theory classes (121, 129A, 122, 129B, 221, 229A, 222A, 229B) must be maintained.
2. 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).

**** 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 Conservatory study for transfer students) with guidance and approval of the composition faculty as a part of the planned program.

Bachelor of Music in Performance

Students seeking degrees in this program may select an emphasis area in accordion, guitar, organ, piano, piano pedagogy, jazz and studio music, string instruments (cello, string bass, viola, and violin), voice, and wind & percussion instruments (bassoon, clarinet, euphonium, flute, horn, oboe, percussion, saxophone, trombone, trumpet, and tuba).

Accordion Emphasis Area

Prerequisites

1. Students must show demonstrable knowledge of major and harmonic minor scales and arpeggios for both hands.
2. Students should be able to perform selections in contrasting styles at the level of Palmer-Hughes, Course Book Ten.

Required Courses
(See minimum foreign language and core requirements)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Language German 110-120</td>
<td>10</td>
</tr>
<tr>
<td>Conservatory 101-402 Applied Study</td>
<td>32</td>
</tr>
<tr>
<td>English 300-level Writing Intensive Course</td>
<td>3</td>
</tr>
<tr>
<td>Communication Studies 110 Fundamentals of Effective Speaking and Listening</td>
<td>3</td>
</tr>
<tr>
<td>Conservatory 303D Accordion Orchestra* (eight semesters)</td>
<td>8</td>
</tr>
<tr>
<td>Conservatory 305D Chamber Music Accordions (eight semesters)</td>
<td>8</td>
</tr>
<tr>
<td>Conservatory 331 Orchestration I</td>
<td>2</td>
</tr>
<tr>
<td>Conservatory 383 Instrumental Conducting</td>
<td>2</td>
</tr>
<tr>
<td>Conservatory 426A Arranging Accordion Orchestra</td>
<td>2</td>
</tr>
<tr>
<td>Conservatory 427 18th Century Counterpoint</td>
<td>2</td>
</tr>
<tr>
<td>Conservatory 437 Computer Literacy for Music Teachers</td>
<td>3</td>
</tr>
<tr>
<td>Conservatory 466 Accordion Literature</td>
<td>2</td>
</tr>
<tr>
<td>Conservatory 491H Pedagogical Practices I (Accordion)</td>
<td>2</td>
</tr>
<tr>
<td>Applied (Piano [3])**</td>
<td>6</td>
</tr>
<tr>
<td>Electives (Non-music)</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
</tbody>
</table>
Conservatory of Music

* Conservatory 305F, Musica Nova, may be used in senior year (upon approval).
** Successful completion of Conservatory 310, Keyboard Skills IV, with a grade of B- or better is required.

**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**
(See minimum foreign language and core requirements)

- Conservatory 101-402 Applied Study 32
- Communication Studies 110 Fundamentals of Effective Speaking and Listening 3
- English 300-level Writing Intensive Course 3
- Ensemble (Eight Semesters) 8
- Conservatory 305J Chamber Music Guitar 4
- Conservatory 31 ORCHESTRATION I 2
- Conservatory 427 18TH CENTURY COUNTERPOINT 2
- Conservatory 437 Computer Literacy for Music Teachers 3
- Conservatory 491D-492D Pedagogical Practices I, II (Guitar) 3
- Conservatory 494 Performance Styles 2
- Electives (Music) 4
- Electives 12

* Successful completion of Conservatory 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 to 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**
(See minimum foreign language and core requirements)

- Conservatory 101-402 Applied Study 32
- Communication Studies 110 Fundamentals of Effective Speaking and Listening 3
- English 300-level Writing Intensive Course 3
- Conservatory 301J-402J Applied Study 8
- Conservatory 104-404 Jazz Improvisation I,II,III,IV 8
- Conservatory 491D-492D Pedagogical Practices I, II (Guitar) 3
- Conservatory 494 Performance Styles 2
- Electives (Music) 4
- Electives 12
- Conservatory 491C Pedagogical Practices I (Organ) 2
- Electives (Harpischord) 2
- Applied (Piano [2])** 4
- Electives (Music)*** 4
- Electives 8

*Successful completion of Conservatory 310, Keyboard Skills IV, with a grade of B- or better is required.
**Conservatory 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 10
- Conservatory 101-402 Applied Study 32
- Ensemble (Eight Semesters)* 8
- English 300-level Writing Intensive Course 3
- Conservatory 382 Choral Conducting 2
- Conservatory 427 18TH CENTURY COUNTERPOINT 2
- Conservatory 437 Computer Literacy for Music Teachers 3
- Conservatory 460-469 Organ Literature I, II 4
- Conservatory 491C Pedagogical Practices I (Organ) 2
- Electives (Harpsichord) 2
- Applied (Piano [2])** 4
- Electives (Music)*** 4
- Electives 8

* Organ performance majors have the option of using a maximum of four semesters of Conservatory 305G, Collaborative Keyboard, in lieu of their major ensemble.
** 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.
*** Successful completion of Conservatory 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 10
Conservatory 101-402 Applied Study 32
Conservatory 114, 115, 214, 215 Piano
  Sight-Reading I-IV 4
  Ensemble (Eight Semesters)* 8
English 300-level Writing Intensive Course 3
Conservatory 325-326 Piano Pedagogy I, II 4
Conservatory 325A-326A Piano Pedagogy - Supervised Teaching I, II 2
Conservatory 376, 377, 476, 477 Accompanying I-IV 6
Conservatory 427 18th Century Counterpoint 2
Conservatory 437 Computer Literacy for Music Teachers 3
Conservatory 461-462 Piano Literature I, II 6
  Electives 8

* Piano performance majors have the option of using a maximum of four semesters of Conservatory 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 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)
Foreign Language French/German/Italian 110, 120, 211, 221* 16
Conservatory 101-402 Applied Study 32
Conservatory 171-172 Foreign Languages for Singing I, II 4
Conservatory 302 Conservatory Orchestra (eight semesters) 16
Conservatory 305A Chamber Music Strings (four semesters) 4
Conservatory 331 Orchestration I 2
Conservatory 427 18th Century Counterpoint 2
Conservatory 470D Introduction to String Literature and Pedagogy 3
  Computer Science 100 Computer Survival: Applications 3
  Applied (Piano [3])** 4
  Electives 11
  Electives (Music) 6

* Successful completion of Conservatory 310, Keyboard Skills IV, with a grade of B- or better is required.

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)
Foreign Language French/German/Italian 110, 120, 211, 221* 16
Conservatory 101-402 Applied Study 32
Conservatory 171-172 Foreign Languages for Singing I, II 4
English 300-level Writing Intensive Course 3
Conservatory 305A Chamber Music Strings (four semesters) 4
  Ensemble (Eight Semesters)** 8
Theater 300 Acting I 3
Theater 340 Stage Makeup 1
Conservatory 437 Computer Literacy for Music Teachers 3
Conservatory 457-458 Vocal Literature I, II 4
Conservatory 491B-492B Pedagogical Practices I, II (Voice) 3
  Applied (Piano [3])** 4
  Electives 9

* 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.
** Ensemble: Six semesters of Men’s Chorus, Women’s Chorus or Heritage Chorale are required. Two semesters of Opera/Musical Theatre ensemble are required.
*** Successful completion of Conservatory 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)
- Conservatory 101-402 Applied Study 32
- Communication Studies 110 Fundamentals of Effective Speaking and Listening 3
- English 300-level Writing Intensive Course 3
- Conservatory 302/306A/306C Conservatory Orchestra/Wind Ensemble/Wind Symphony (8 semesters) 16
- Conservatory 305 Chamber Music (4 semesters) 4
- Conservatory 331 Orchestra I 2
- Conservatory 383 Instrumental Conducting 2
- Conservatory 427 18th Century Counterpoint 2
- Conservatory 437 Computer Literacy for Music Teachers 3
- Conservatory 470 Introduction to Pedagogy and Literature 3
- Applied Piano [2]* 4
- Electives(Music)** 8
- Electives 11

* Successful completion of Conservatory 310, Keyboard Skills IV, with a grade of B- or better is required.
** Percussion majors must take Conservatory 464A, Wind and Percussion Literature-Percussion.

**Bachelor of Music in Music Theory**

**Degree Program Prerequisites**
1. Formal approval of the music theory program must be acted upon after the student completes Conservatory 222A or its equivalent. Students in this degree plan must maintain a minimum GPA of B- in the undergraduate music theory sequence (Conservatory 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.
2. 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)*
- Conservatory 101-402 Applied Study** 16
- Ensemble (Eight Semesters) 8
- English 300-level Writing Intensive Course 3
- Communication Studies 110 Fundamentals of Effective Speaking and Listening 3
- Conservatory 133-134 Beginning Composition I, II 4
- Conservatory 235 Techniques of Electronic Music I 3
- Conservatory 310 Keyboard Skills IV*** 2
- Conservatory 329 Advanced Ear Training 2
- Conservatory 331A Orchestration I 3
- Conservatory 373 Instrumental Techniques (two semesters) 2
- Conservatory 382/383 Choral/Instrumental Conducting 2
- Conservatory 424 Acoustics 3
- Conservatory 427 18th Century Counterpoint 2
- Conservatory 428 Contemporary Harmonic/Contrapuntal Styles 3
- Conservatory 491K Pedagogical Practices I Theory 3
- Conservatory 497 Theory Seminar 3
- Conservatory 498 Research Problems 2
- Electives (Non-music) 3
- Electives 12
- Electives (Music) 2

* Petitions to substitute another language will be considered in special cases.
** Students majoring in music theory must complete the applied level of Piano 402, secondary.
*** Successful completion of Conservatory 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 Fine Arts**

The Conservatory of Music offers a bachelor of fine arts in dance.

**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.

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 and may only repeat that level once.
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 major and minor areas of emphasis on ballet and/or modern dance.
5. In the two years following acceptance by the dance faculty, of the petition for declaration of major and minor areas of emphasis, a student will be expected to complete the third-year levels of technical proficiency in the minor area of emphasis, and the fourth-year levels of technical proficiency in the major area of emphasis.

6. 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.
3. Approval of the major by the dance faculty will be made at the end of either the freshman or sophomore year.

Required Dance Courses

Dance 140A-140B Analysis of Movement for the Dance I, II 2
Dance 141B-442B Ballet Technique and Theory I-VIII 24
Dance 141M-442M Modern Dance Technique and Theory I-VIII 24
Dance 107, 108 Dance Production I, II 4
Dance 213C-213D Men’s Class I, II 2
Dance 217A, 217B Improvisation I, II 2
Dance 218A, 218B, 319A, 319B Composition I-IV 4
Dance 250 Labanotation I 2
Dance 260, 261 Jazz I, II 2
Dance 302 Fundamentals of Body Alignment 1
Dance 305, 306 History of Dance I, II 3
Dance 309B Company 3
Dance 310A, 310B Pirouette Class I, II 2
Dance 313A, 313B Partnering/Pas de Deux I, II 2
Dance 405A, 405B Modern Dance Repertory I, II 2
Dance 413A, 413B Advanced Pas de Deux I, II 2
Dance 415A, 415B Variations I, II 2
Dance 310A, 310B Pirouette Class I, II 2
Performance Techniques I-IV 4
Dance 493, 494 Senior Recital I, II** 4

Total Hours 99(*101)

Required General Studies Courses

History 101 American History to 1877 3
Art 110 Introduction to the Visual Arts 3
Communication Studies 110 Fundamentals of Effective Speaking and Listening 3
English 110 Freshman English I 3
English 225 English II 3
Conservatory 120 Music Appreciation 3
Conservatory 353A History and Development of Jazz I 3
Theater 300 Acting I 3
Conservatory 375B Special Percussion Methods for Dance Students 1
Computer Science 100 Computer Survival: Applications 3
Applied Music 2
Dance 301 Advanced Movement Analysis for Dancers I 3
Dance 302 Fundamentals of Body Alignment 1
Dance 303 Fundamentals of Body Conditioning 1

Total Hours 35

*Successful completion of Conservatory 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.

**A senior recital is required. The recital must consist of three different dance forms studied in the four years of coursework, including one solo and at least one work choreographed by the student. Further senior recital requirements are contained in the Conservatory dance student handbook.

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.

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.

Required Music Courses

Conservatory 121, 122, 221, 222A Music Theory I-IV 12
Conservatory 129A, 129B, 229A, 229B Ear Training and Solfege 4
Conservatory 154 Music Listening Laboratory (Seven Semesters) 7
Conservatory 154A Music Listening Laboratory: Non-Western Cultures 1
Conservatory 323 Form and Analysis I 2
Conservatory 101-301 Applied Study 10
Conservatory 490S Independent Study - General Education Synthesis 3
Piano (If not the applied area)** 4
Ensemble (Eight Semesters)** 8
Electives (Music) 3

Total Hours 54

*Throughout their programs of study, all dancers are expected to maintain general physical fitness and weight as prescribed by the dance faculty. Health and weight requirements, and many other details, are contained in the Conservatory dance student handbook that is furnished to all dance students.
Required General Studies Courses

- Humanities: 6
- Social Science: 6
- American History: 3
- Biological Science (with lab): 3(4)
- English 110, 225, and one 300-level Writing Intensive Course: 9
- Communication Studies 110 Fundamentals of Effective Speaking and Listening: 3
- Advanced Math or Statistics: 3
- Conservatory 150 Intro to Music Literature: 3
- Conservatory 351, 352 History of Music in Western Civilization I, II: 6
- Conservatory 424 Acoustics: 3
- Conservatory 437 Computer Literacy: 3
- Area of Concentration*: 15-18
- Electives (Non-music)*: 9-12

Total Hours: 75

* Area of Concentration and electives together must include at least four courses in one area beyond the introductory level.

Bachelor of Arts in Music

Music Therapy Emphasis Area Prerequisites

1. Students should be able to qualify for Conservatory 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 also are 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 Conservatory 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

- Conservatory 101-301 Applied Study*: 10
- Conservatory 101C Voice Class: 2
- Conservatory 121,122,221,222A Music Theory I-IV: 12
- Conservatory 128 Introduction to Music Education/Music Therapy: 1
- Conservatory 129A,129B,229A,229B Ear Training and Solfege: 4
- Conservatory 150 Introduction to Music Literature: 3
- Conservatory 154 Music Listening Laboratory (seven semesters): 7
- Conservatory 154A Music Listening Laboratory: Non-Western Cultures: 1
- Conservatory 223-310 Keyboard Skills III, IV**: 4
- Conservatory 302/306A/306/307B/301B/301C Orchestra/Wind Ensemble/Wind Symphony/Heritage Chorale/Men’s Chorus/Women’s Chorus (eight semesters): 8
- Conservatory 315 Popular Piano Styles: 3
- Conservatory 316 Popular Guitar Styles: 1
- Conservatory 351-352 History of Music in Western Civilization I, II: 6
- Conservatory 360 Introduction to Jazz, Improvisation and Popular Styles: 2
- Conservatory 373 Instrumental Techniques (three semesters): 3
- Conservatory 380/381 Basic Conducting Choral or Basic Conducting Instrumental: 2
- Conservatory 425A/425B Arranging for Choral Groups or Arranging Instrumental: 2

* Proficiency level 301 (2 hrs) in the major applied field must be passed.
** Successful completion of Conservatory 310, Keyboard Skills IV, with a grade of B- or better is required.
*** If the applied area is in voice, two semesters of Opera/Musical Theatre Ensemble are required.
**** In addition to guitar and accordion, students must complete Conservatory 373N, Survey of Wind and Percussion Instruments.

Music Therapy Emphasis Area Required Courses

- LS Physiology 117 Human Physiology: 3
- LS Anatomy 118L Human Anatomy Lab: 2
- Conservatory 130 Music Therapy Techniques: Adults: 3
- Conservatory 180 Music In Special Education: 3
- Conservatory 210A Clinical Experience I*: 1
- Conservatory 210B Clinical Experience II: 1
- Conservatory 210C Clinical Experience III: 1
- Conservatory 210D Clinical Experience IV: 1
- Conservatory 210E Clinical Experience V**: 1
- Conservatory 210F Clinical Experience VI***: 1
- Conservatory 260 Clinical Foundations of Music Therapy: 3
- Conservatory 406 Influence of Music on Behavior: 3
- Conservatory 408 Music in Therapy: Adults: 3
- Conservatory 409 Music in Therapy: Children: 3
- Conservatory 410 Internship: 1-4
- Conservatory 435 Psychological Foundations of Music I: 3
- Psychology 210 General Psychology: 3
- Psychology 322 Child Psychology: 3
- Psychology 433 Abnormal Psychology: 3

* Must be taken concurrently with Conservatory 260.
** Must be taken concurrently with Conservatory 408.
*** Must be taken concurrently with Conservatory 409.

Music Therapy Emphasis Area General Studies Courses

- English 110 Freshman English I: 3
- English 225 English II: 3
- Communication Studies 110 Fundamentals of Effective Speaking and Listening: 3
- Conservatory 424 Acoustics: 3
- Conservatory 437 Computer Literacy for Music Teachers: 3
- History 101/102 American History: 3
- Psychology 316 Quantitative Methods in Psychology: 3
- Electives (General): 4
### 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 NAMS 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. Complete 201 and be admitted into 202 in the applied area of study.
2. Complete Conservatory 223 or complete Conservatory 310, Keyboard Skills IV, with a grade of B- or better.
3. Compile a GPA of at least 2.8 overall and/or 3.0 GPA in music.
4. Must maintain a combined GPA of at least 2.75 in music theory and ear training classes.

#### Before the student teaching semester the student:

1. Must complete a 30-minute public recital and 401.
2. Must complete Conservatory 310, Keyboard Skills IV, with a grade of B- or better.
3. 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conservatory 101-401 Applied Study(a)</td>
<td>14</td>
</tr>
<tr>
<td>Conservatory 101C Voice Class I</td>
<td>2</td>
</tr>
<tr>
<td>Conservatory 110, 123, 223, 310</td>
<td>8</td>
</tr>
<tr>
<td>Keyboard Skills I-IV(b)</td>
<td>12</td>
</tr>
<tr>
<td>Conservatory 121,122,221,222A</td>
<td>2</td>
</tr>
<tr>
<td>Music Theory I-IV</td>
<td>1</td>
</tr>
<tr>
<td>Conservatory 129A, 129B, 229A,229B</td>
<td>4</td>
</tr>
<tr>
<td>Ear Training and Solfege</td>
<td>3</td>
</tr>
<tr>
<td>Conservatory 150 Introduction to Music Literature</td>
<td>4</td>
</tr>
<tr>
<td>Conservatory 154 Music Listening Laboratory (four semesters)</td>
<td>1</td>
</tr>
<tr>
<td>Conservatory 154A Music Listening Laboratory: Non-Western Cultures</td>
<td>1</td>
</tr>
<tr>
<td>Conservatory 160/161 Instrument Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Conservatory 270 Marching Band Technique</td>
<td>1</td>
</tr>
<tr>
<td>(Wind/Percussion students only)</td>
<td>1</td>
</tr>
<tr>
<td>Conservatory 302/306A/306C Orchestra/Wind Ensemble/Wind Symphony (six or seven semesters)(c)</td>
<td>12-14</td>
</tr>
<tr>
<td>Conservatory 323</td>
<td>2</td>
</tr>
<tr>
<td>Form and Analysis I</td>
<td>6</td>
</tr>
<tr>
<td>Conservatory 351, 352 History of Music in Western Civilization I, II</td>
<td>2</td>
</tr>
<tr>
<td>Conservatory 358/359 Band Literature/String Literature (two semesters)</td>
<td>2</td>
</tr>
<tr>
<td>Conservatory 360 Introduction to Jazz, Improvisation and Popular Styles</td>
<td>1</td>
</tr>
<tr>
<td>Conservatory 373 Instrumental Techniques (eight semesters)(d)</td>
<td>8</td>
</tr>
<tr>
<td>Conservatory 378/379 Band Ensemble Techniques/ String Ensemble Techniques</td>
<td>1-2</td>
</tr>
<tr>
<td>Conservatory 381 Basic Conducting-Instrumental</td>
<td>2</td>
</tr>
<tr>
<td>Conservatory 383 Instrumental Conducting</td>
<td>2</td>
</tr>
<tr>
<td>Conservatory 385 Elementary Music Methods for Music Majors</td>
<td>3</td>
</tr>
<tr>
<td>Conservatory 386 Secondary Music Methods-Instrumental</td>
<td>2</td>
</tr>
<tr>
<td>Conservatory 405 Introductory Foundations in the Arts</td>
<td>3</td>
</tr>
<tr>
<td>Conservatory 425B Arranging Instrumental (String students may substitute Conservatory 331, Orchestration I)</td>
<td>2</td>
</tr>
<tr>
<td>Conservatory 437 Computer Literacy for Music Teachers</td>
<td>3</td>
</tr>
<tr>
<td>Conservatory 411A/411B/411C Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>Conservatory 412A/412B Student Teaching Music(e)</td>
<td>8</td>
</tr>
</tbody>
</table>

#### Required General Studies Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 110, 225 English I and II</td>
<td>6</td>
</tr>
<tr>
<td>Elective (Oral Communication)</td>
<td>3</td>
</tr>
<tr>
<td>Elective (Biology w/lab)</td>
<td>5</td>
</tr>
<tr>
<td>Elective (Physical Science)</td>
<td>3</td>
</tr>
<tr>
<td>Elective (Mathematics)</td>
<td>3</td>
</tr>
<tr>
<td>Elective (American History)</td>
<td>3</td>
</tr>
<tr>
<td>Elective (Political Science)</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 210 General Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

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#### 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.

### Bachelor of Music Education Emphasis Areas

The Conservatory of Music 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 the 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:

1. Complete 201 and be admitted into 202 in the applied area of study.
2. Complete Conservatory 223 or complete Conservatory 310, Keyboard Skills IV, with a grade of B- or better.
3. Compile a GPA of at least 2.8 overall and/or 3.0 GPA in music.
4. Must maintain a combined GPA of at least 2.75 in music theory and ear training classes.
Bachelor of Music Education - Choral Emphasis Area

Required Music Courses

Conservatory 101-401 Applied Study* 14
Conservatory 110, 123, 223, 310 Keyboard Skills I-IV** 8
Conservatory 121, 122, 221, 222A Music Theory 12
Conservatory 128 Introduction to Music Education/Music Therapy 1
Conservatory 129A, 129B, 229A, 229B Ear Training and Solfege 4
Conservatory 150 Introduction to Music Literature 3
Conservatory 154 Music Listening Laboratory (four semesters) 4
Conservatory 154A Music Listening Laboratory: Non-Western Cultures 1
Conservatory 171, 172 Foreign Languages for Singing I, II 4
Conservatory 301E Opera/Musical Theatre Ensemble (two semesters) 2
Conservatory 307B/301B/301C Heritage Chorale/ Men’s Chorus/Women’s Chorus (five semesters) 5-10
Conservatory 331 Form and Analysis I 2
Conservatory 351, 352 History of Music in Western Civilization I, II 6
Conservatory 357 Choral Literature (two semesters) 2
Conservatory 360 Introduction to Jazz, Improvisation and Popular Styles 1
Conservatory 370 Choral/Vocal Techniques 2
Conservatory 373N Survey of Wind and Percussion Instruments 1
Conservatory 373P Survey of String Instruments 1
Conservatory 373G Instrumental Techniques Guitar 1
Conservatory 380 Basic Conducting-Choral 2
Conservatory 382 Choral Conducting 2
Conservatory 385 Elementary Music Methods for Music Majors 3
Conservatory 387 Secondary Music Methods - Choral 2
Conservatory 405 Introductory Foundations in the Arts 3
Conservatory 425A Arranging for Choral Groups 2
Conservatory 437 Computer Literacy for Music Teachers 3
Conservatory 411A/411B/411C Field Experience 3
Conservatory 412A/412B Student Teaching Music*** 8

Prerequisites

- A 30-minute recital is required. Applied study 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.
- Successful completion of Conservatory 310, Keyboard Skills IV, with a grade of B- or better is required.
- String students must complete seven semesters of major ensemble. Wind and percussion students must complete six semesters of major ensemble.
- 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, containing 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). Conservatory 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).
- Two seven-credit-hour experiences divided between the Conservatory and School of Education provide certification in Music K-12.

Bachelor of Music Education - Music Therapy Emphasis Area

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 Conservatory 410 Clinical Experience. Therapy students are required to enroll in a professional liability insurance program.

Prerequisites

1. 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.
2. Applicants should complete an interview with a music therapy 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.
Retention

Before starting the junior year:

1. Complete 201 and be admitted into 202 in the applied area of study.
2. Complete Conservatory 223 or complete Conservatory 310, Keyboard Skills IV, with a grade of B- or better.
3. Compile a GPA of at least 2.8 overall and/or 3.0 GPA in music.
5. 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:

1. 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 (Conservatory 130, 180, 210, 260, 406, 408, 409).
2. Complete Conservatory 310, Keyboard Skills IV, with a grade of B- or better.

Area Required Music Courses

Conservatory 101-301 Applied Study(a) 10
Conservatory 101C Voice Class I (Instrumental) 2
Conservatory 121,122,221,222A Music Theory I-IV 12
Conservatory 128 Introduction to Music Education/Music Therapy 1
Conservatory 129A,129B,229A,229B Ear Training and Solfege I-IV 4
Conservatory 130 Music Therapy Techniques: Adults 3
Conservatory 150 Introduction to Music Literature 3
Conservatory 154 Music Listening Laboratory (four for choral) (five for instrumental) 4-5
Conservatory 154A Music Listening Laboratory: Non-Western Cultures 1
Conservatory 180 Music in Special Education 3
Conservatory 210A Clinical Experience (b) 1
Conservatory 210B Clinical Experience II 1
Conservatory 210C Clinical Experience III 1
Conservatory 210D Clinical Experience IV 1
Conservatory 210E Clinical Experience V(c) 1
Conservatory 210F Clinical Experience VI(d) 1
Conservatory 223,310 Keyboard Skills III, IV(e) 4
Conservatory 260 Clinical Foundations of Music Therapy 3
Conservatory 302/306A/306C/307B/301B/301C Orchestra/Wind Ensemble/Wind Symphony/Heritage Chorale/Men’s Chorus, Women’s Chorus (five semesters)(f) 5-10
Conservatory 315 Popular Piano 1
Conservatory 316 Popular Guitar Styles (for choral only) 1
Conservatory 323 Form and Analysis I 2
Conservatory 351,352 History of Music in Western Civilization I, II 6
Conservatory 357 Choral Literature (for choral only) (two semesters) 2
Conservatory 370 Choral/Vocal Techniques (for choral only) 2
Conservatory 373 Instrumental Techniques(g) (four-six semesters) 4-6
Conservatory 380/381 Basic Conducting Choral/Instrumental 2
Conservatory 382/383 Choral Conducting/Instrumental Conducting 2
Conservatory 385 Elementary Music Methods for Music Majors 3
Conservatory 386/387 Secondary Music Methods - Instrumental/Choral 2
Conservatory 405 Introductory Foundations in the Arts 3
Conservatory 406 Influence of Music on Behavior 3
Conservatory 408 Music in Therapy: Adults 3
Conservatory 409 Music in Therapy: Children 3
Conservatory 410 Internship 1-4
Conservatory 424 Acoustics 3
Conservatory 425A/B Arranging for Choral Groups/Instrumental Arranging 2
Conservatory 435 Psychological Foundations of Music I 3
Conservatory 437 Computer Literacy for Music Teachers 3
Conservatory 411A/411B Field Experience 2
Conservatory 412A/412B Student TeachingMusic(h) 8

Area Required General Studies Courses

English 110,225 English I and II 6
LS Physiology 117 Human Physiology 3
LS Anatomy 118L Human Anatomy Lab 2
Elective (Oral Communications) 3
Elective (American History) 3
Elective (Political Science) 3
Elective (Mathematics) 3
Elective (Sociology/Anthropology) 3
Psychology 210 General Psychology 3
Psychology 433 Abnormal Psychology 3
Education 435 Reading in Secondary School 3
TE 403 Educational Psychology 3
TE 404 Education of the Exceptional Child and Youth 3
TE 405/422 Field Experience 2
TE 419/437 Student Teaching(h) 6

(a) Applied Studies Requirement: The student must complete 301 level in any instrument. No recital is required.
(b) Must be taken concurrently with Conservatory 260.
(c) Must be taken concurrently with Conservatory 408.
(d) Must be taken concurrently with Conservatory 409.
(e) Successful completion of Conservatory 310, Keyboard Skills IV, with a grade of B- or better is required.
(f) If the applied area is in voice, one semester of Opera/Musical Theatre Ensemble is required.
(g) One hour in accordion is required for both the choral and instrumental track. The instrumental certification track also requires guitar technique (Conservatory 375G) and one technique class from each of the following areas: woodwinds (except woodwinds III); brass; strings; and percussion; (Conservatory 375A), for a total of six instrumental technique classes. The choral certification track will be required to complete Popular Guitar Styles (Conservatory 316) with prerequisites if needed, special percussion (Conservatory 375A) and either survey of wind/percussion (Conservatory 373N) or survey of strings (Conservatory 373P) for a total of four instrumental technique classes.
(h) Two seven-credit-hour experiences divided between the Conservatory and School of Education provide certification in Music K-12.

Conservatory of Music Courses

101C Voice Class I (2). A course in the fundamentals of correct voice productions; breathing, breath control, study of vowel forms and consonants. Elementary songs. Pause, 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.
103 Fundamentals of Music Theory (2). 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.

104 Jazz Improvisation I (2). A systematic approach to the art of jazz improvisation. Emphasis upon performance as well as analysis. Prerequisite: Cons. 122 or consent of the instructor.

105 Jazz Improvisation for Non-Jazz Majors (2). 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

108 Beginning Piano for Non-Music Majors (2). 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.

110 Keyboard Skills I (2). Group instruction in beginning techniques of reading, harmonization, transposition, and improvisation, including an introduction to MIDI technology.

114 Piano Sight-Reading I (1). Laboratory practice in sight-reading for piano majors.

115 Piano Sight-Reading II (1). Continuation of Cons. 114.

120 Music Appreciation (3). 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.

121 Music Theory I (3). 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, non-harmonic tones, introduction to chords of the seventh, and elementary modulation.

122 Music Theory II (3). Continuation of Cons. 121. Prerequisite: Cons. 121 or equivalent.

123 Keyboard Skills II (2). Group instruction in intermediate-level reading, harmonization, transposition, accompaniments, and improvisations in a variety of styles. Introductory techniques in MIDI technology are also included.

125 History and Development of Rock and Roll (3). 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 Rap and the music videos of the MTV generation. 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.

128 Introduction to Music Education/Music Therapy (1). An introductory course for all BME Choral and Instrumental majors, all music therapy majors, and all students who want general information about the field of music education and music therapy. Includes information on the profession and the role of music education in a school curriculum, as well as the role of music therapy in various settings.

129A Ear Training and Solfege I (1). Study of tonal aural problems and rhythms. Introduction to movable do solfege.

129B Ear Training and Solfege I (1). Continuation of Cons. 129A. Prerequisite: Cons. 129A.

130 Music Therapy Techniques: Adults (3). Class demonstration and participation in use of materials for psychiatric and geriatric clients. Required of all BME Therapy majors.

133 Beginning Composition I (2). Introduction to the compositional process, including notation, calligraphy and score preparation, styles and forms, and related topics. A weekly one-hour lab is required.

134 Beginning Composition II (2). Continuation of Cons. 133. Prerequisites: Cons. 121 and Cons. 133 or consent of the instructor. A weekly one-hour lab is required.

150 Introduction to Music Literature (3). 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.

154 Music Listening Laboratory (1). “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.

154A Music Listening Laboratory: Non-Western Cultures (1). 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.

160 Wind and Percussion Laboratory I (1). 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 CONS 373 (C,D,E,F,H, OR I), 381, 383, or 386. Prerequisite(s): Permission of instructor.

161 String Instrument Laboratory I (1). 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 CONS 373 (A&B), 381, 383, or 386. Prerequisite: Permission of instructor.

171 Foreign Language for Singing I (2). A course for Italian and German diction. Emphasis is placed on oratorio rather than conversational pronunciation. Required for BME Choral and BM voice.


180 Music in Special Education (3). Class demonstration and participation in the use of music materials for handicapped children.

199 Kangaroo Band (1). 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.

202 Basic Techniques of Audio Recording I (3). A study of the philosophy, history, and development of audio recording. Practical application of recording techniques and development of recording skills.

203 Basic Techniques of Audio Recording II (3). Continuation of study of recording techniques and development of recording skills. Prerequisite: Cons. 202 or consent of the instructor.

204 Jazz Improvisation II (2). Prerequisite: Cons. 104 or consent of the instructor.

205 Applied Jazz Studies (2). 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.

210 Clinical Experience (1). 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.

210A Clinical Experience: I (1). Must be taken concurrently with Cons 260

210B Clinical Experience: II (1). Primarily assists the site coordinator with some leadership responsibilities.

210C Clinical Experience: III (1). Equal assisting and leading responsibilities on-site

210D Clinical Experience: IV (1). Some assisting and primarily leading responsibilities on-site.

210E Clinical Experience: V (1). Must be taken concurrently with Cons 408

210F Clinical Experience VI (1). Must be taken concurrently with Cons. 409.

214 Piano Sight-Reading III (1). Laboratory practice in sight-reading for piano majors. Prerequisite: Cons. 115.

215 Piano Sight-Reading IV (1). Laboratory practice in sight-reading for piano majors. Prerequisite: Cons. 214.

221 Music Theory III (3). Continuation of Cons. 122. Introduction to nineteenth century harmony. Prerequisite: Cons. 122.

222A Music Theory IV (3). Continuation of Cons. 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: Cons. 221.

223 Keyboard Skills III (2). Group instruction in advanced techniques of reading, harmonization, transposition, and improvisation, with extended-range accompaniments. Techniques for practicing using MIDI technology are also included.

229A Ear Training and Solfege I (1). Continuation of Cons. 129B. Prerequisite: Cons. 129B.
229B Ear Training and Solfege (1). Continuation of Cons. 229A. Prerequisite: Cons. 229A.

233 Intermediate Composition I (2). Composition of original music in various styles and forms. Prerequisites: Cons. 134 and Cons. 122 or consent of the instructor. A weekly one-hour lab is required.

234 Intermediate Composition II (2). Continuation of Cons. 233. Prerequisites: Cons. 221 and Cons. 233 or consent of the instructor. A weekly one-hour lab is required.

235 Techniques of Electronic Music I (3). A thorough introduction to the instruments and techniques of electronic music production. A hands-on approach to sound synthesis, processing and recording both analog and digital equipment. Three one-hour lectures/demonstrations per week; 1 1/2 - 2 hours personal and/or group studio time per week scheduled. Class recital of composed works each semester. Prerequisite: Cons 233 or consent of the instructor. Offered: Winter.

260 Clinical foundations of Music Therapy (3). 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 Cons 210A, Clinical Experience I

270 Marching Band Technique (1). A study of organization and formations involved for use with varsity and military bands.

285 Elementary Music Methods (3). 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 Cons. 385 in place of Cons. 285.

301B Men’s Chorus (1).

301C Conservatory Women’s Chorus (1).

301D Connection (1).

301E Opera/Musical Theatre Ensemble (1). 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.

301G Ensemble for Composers (1). 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 Cons. 234 or permission of the composition faculty.

302 Orchestra (2). Required of all qualified music majors and open to all interested students by audition.

303B Jazz Band (1).

303C Percussion Ensemble (1).

303D Accordion Orchestra (1).

303E Jazz Workshop I (1). Prerequisite: Consent of the instructor.

303G Jazz Orchestra (1).

304 Jazz Improvisation III (2). Prerequisite: Cons. 204 or consent of the instructor.

305 Chamber Music Collaborative Keyboard (1). Coaching the pianist in collaborative music-making, either vocal accompaniment or in chamber music situations with other instruments. Undergraduate keyboard performance majors have the option of using 4 semesters of accompanying and/or chamber music in lieu of a major ensemble. Grades are submitted by the instructors of the students being accompanied, or by the ensemble. Grades are submitted by the instructors of the students being accompanied, or by the ensemble coach. By permission of the instructor.

305H Chamber Orchestra (1).

305J Chamber Music Guitar (1).

306A Conservatory Wind Ensemble (2).

306C Wind Symphony (2). 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.

306D Madrigal Singers (1).

307B Heritage Chorale (2).

309 Audio Recording III (3). Continuation of study of recording techniques and music production skills. Prerequisite: Cons. 203.

310 Keyboard Skills IV (2). 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.

315 Popular Piano Styles (1). Course covers techniques of leading piano stylists from early rapture to the present. Includes listening, analysis, arranging, and performing. Prerequisite: Completion of Piano Proficiency Exam or consent of the instructor.

316 Popular Guitar Styles (1). Course covers techniques of leading guitar styles from the 1920’s to the present. Includes listening, analysis, transcription, and performing. Prerequisite: Completion or credit by exam of CONS 373G, or by consent of instructor.

318 Jazz Ear Training and Listening (2). 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: Cons. 329 Advanced Ear Training

323 Form and Analysis I (2). Application of theoretical principles of analysis to Western Art music. Prerequisite: Cons. 221.

325 Piano Pedagogy I (2). Survey of beginning methods and materials. Introduction to learning theories and teaching strategies for individual and group instruction.

325A Piano Pedagogy - Supervised Teaching I (1). Supervised practicum includes evaluation of teacher effectiveness and student musical growth. Must be taken concurrently with Cons. 325.


326A Piano Pedagogy - Supervised Teaching II (1). Supervised individual and group teaching. Must be taken concurrently with Cons. 326. Prerequisite: Cons. 325A.

329 Advanced Ear Training (2). Study of atonal and highly chromatic tonal aural problems, complex rhythms, and recognition of instruments. Prerequisite: Cons. 222 or 222B or equivalent. May be repeated for credit.

330 Jazz Composition (3). 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 Kansas City professionals.

331I Orchestration I (2). 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: Cons. 222 or 222B or consent of an instructor or Music theory I-IV.

331A Orchestration I (3). An introduction to the instruments of the symphony orchestra and rudiments of scoring. Meets concurrently with Cons. 331; the third credit hour is required for music composition and music theory majors. Prerequisites: Cons. 222 or 222B or consent of an instructor of Music Theory I-IV.

333 Advanced Composition (2). Prerequisites: Cons. 222 or 222B and Cons. 234 or consent of the instructor. May be repeated for credit.

335 Electronic Music Composition (3). Creative, original composition of music in diverse styles utilizing the full range of equipment and techniques available. A minimum of 3-4 hours of personal studio time per week scheduled. Concert of composed works each semester. May be repeated for credit. Prerequisite: Cons 236 or consent of instructor.

349 Jazz Style and Analysis (2). 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: Cons. 353A History and Development of Jazz I

351 History of Music in Western Civilization I (3). 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: Cons. 150 and successful completion of Cons. 122 highly recommended, or by consent of the instructor.
Survey of Wind and Percussion Instruments (1). A course for music majors designed to give an overview of basic wind and percussion instruments used in public school settings. Includes embouchure formation, hand position, sound production, and pedagogical issues encountered in beginning situations.

Survey of String Instruments (1). An overview of basic string instruments used in public school settings. Includes hand position, bowing, sound production, and pedagogical issues encountered in beginning situations.

Special Percussion Methods for Music Therapy Students (1). Study of classroom and individual percussion techniques applicable to situations found in the field of music therapy. Prerequisites: None.

Special Percussion Methods for Dance Students (1). A class of percussion techniques which stresses hand drumming skills and advanced rhythmic counting and analysis. Prerequisites: None.

Accompanying I (2). 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.

Accompanying II (2). Continuation of Cons. 376.

Band Ensemble Techniques (2). 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: CONS 381 and pedagogical permission or instructor.

String Ensemble Techniques (1). 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 pedagogical issues. Prerequisites: CONS 381 or permission of instructor.

Basic Conducting - Choral (2). 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: Cons. 222A or 222B.
hours in either a middle school/junior high or high school music classroom. To be taken concurrently with CONS 385. Prerequisites: Cons 411B or permission of faculty

412A Student Teaching Music in Elementary School (6-12). 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: Cons 411C

412B Student Teaching Music in Secondary School (6-12). 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: Cons 411C

417 Opera Workshop (2). Introduction to opera and opera performance techniques. Class will include performance of opera scenes. Prerequisite: consent of the instructor. May be repeated for credit.

421A Music Theory Review for Graduate Students (1-3). An intensive review with emphasis placed on analysis. Open to graduate students only. MAY NOT BE USED ON A PLANNED PROGRAM.

421B Ear Training and Solfege for Graduate Students (1). An intensive review of ear training and sight singing. Open to graduate students only. MAY NOT BE USED ON A PLANNED PROGRAM.

423 Business Jazz and Commercial Music (3). An introduction to the various elements of the music industry, including production, marketing, unions, contracts, broadcasting, licensing agreements and copyrights.

424 Acoustics (3). 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.

425A Arranging for Choral Groups (2). 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: Cons. 222A or 222B.

425B Arranging Instrumental (2). Prerequisite: Cons. 222 or 222B or recommendation of an instructor of Music Theory I-IV.

426B Jazz Arranging for Small Ensembles (2). This course will teach the art of Calligraphy as well as the techniques of arranging and orchestration for small jazz ensembles for up to five horns. The course will also include an in-depth study of basic voicings, instrumental sonorities, and some extended forms using intensive listening and score study. UMKC combos, or top Kansas City professionals, will perform final assignments. Prerequisite: Cons. 222 Music Theory IV or consent of the instructor.

426D Jazz Arranging for Big Bands (2). 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: Cons 426B

427 18th Century Counterpoint I (2). Analysis and writing in 18th century style and forms including canon, inversion and fugue. Prerequisite: Cons. 222 or 222B or recommendation of an instructor of Music Theory I-IV.

428 Contemporary Harmonic/Contrapuntal Style (3). Analysis and writing in contemporary styles. Prerequisite: CONS 222 or recommendation of an instructor of Music Theory I-IV

431 Orchestration III (2). 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: Cons. 331A or consent of the instructor.

433 Composition Recital (3). 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 Cons. 333, approval of major status by the Composition Division, and consent of the instructor.

435 Psychological Foundations of Music (3). The study of the psychological aspects of music including perception, cognition, affect, and preference. An introduction measurement and experimental research including statistical techniques. Prerequisite: Cons 260 or permission of instructor

437 Computer Literacy for Music Teachers (3). 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.

440 Jazz Keyboard Techniques I (2). 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 (Arden, Ellington, Gershwin, etc.); harmonization at sight from chord sheets. Prerequisite: Completion of piano proficiency or consent of instructor.

441 Jazz Keyboard Techniques II (2). A continuation of Conservatory 440. Prerequisite: Conservatory 440 or consent of the instructor.

457 Vocal Literature I (2). 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.

458 Vocal Literature II (2). A continuation of Cons. 457.

459 Advanced Choral Literature (3). 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.

461 Piano Literature I (3). A survey of the development of keyboard literature and keyboard forms from the fourteenth through the mid-eighteenth centuries. Study of important stringed keyboard instruments including the piano and its predecessors.

462 Piano Literature II (3). Survey of composers and literature for the piano from the late-eighteenth through the twentieth centuries.

464A Wind and Percussion Literature Percussion (2). A study of solo and ensemble literature for percussion.

469 Organ Literature II (2). A survey of organ music from 1750 to the present.

470A Introduction to Pedagogy and Literature Windwinds (3). A study of teaching techniques and materials and of solo and ensemble literature. Senior status required.

470B Introduction to Pedagogy and Literature Brass (3). A study of teaching techniques and materials and of solo and ensemble literature. Senior status required.

470C Introduction to Pedagogy and Literature Percussion (3). A study of teaching techniques and materials and of solo and ensemble literature. Senior status required.

470D Introduction to String Literature and Pedagogy (3). A study of teaching techniques and materials and solo and ensemble literature. Senior status required.

471 Jazz/Commercial Music Pedagogy (2). 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: Cons 381 Basic Conducting.

476 Accompanying III (1). 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.

477 Accompanying IV (1). Continuation of Cons. 476.

483 Advanced Instrumental Conducting (2). A review of techniques and musical styles of literature for all levels and all media through conducting in class.

490 Independent Study (1-3). 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.

491K Pedagogical Practices I Theory (3).

491M Pedagogical Practices I General (3). 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.

494 Performance Styles (2). 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 Cons. 122, audition and consent of the instructor.

497 Seminar-Workshop in Music (1-4). Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.
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.

303 Fundamentals of Body Conditioning (1). The course is designed to complement and link to course 302 - Fundamentals of Body Alignment. This course will deal with advanced conditioning for dancers to develop and maintain muscular strength and flexibility through a series of established exercises that are carefully designed to reach all muscle groups. This will be a continuation of Fundamentals of Body Alignment and should be taken in sequence to derive the greatest benefit to the student during their professional training. Prerequisites: Dance 301 and 302

305 History of Dance I (3). 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.


309B Company (1). 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.

310A Pirouette Class I (1). 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 241M (modern) or higher

310B Pirouette Class II (1). Continuation of Dance 310A. Prerequisites: Dance 241B (ballet) or 241M (modern) or higher.

313A Partnering/Pas de Deux I (1). 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.

313B Partnering/Pas de Deux II (1). Continuation of Dance 313A. Prerequisites: 341B Ballet Technique and Theory V or higher.

316A Performance Techniques I (1). 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.

316B Performance Techniques II (1). 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.

319A Composition III (1). 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: Cons 215B.

319B Composition IV (1). 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: Cons 319A.

341B Ballet Technique and Theory V (3). Continuation of Cons. 242B on the advanced level. (Modern emphasis students - minimum of 3 classes weekly required (MWF) (2 hrs.).

341M Modern Dance Technique and Theory V (3). Continuation of 242M on the advanced level. (Ballet emphasis students - minimum of 3 classes weekly required (MWF) 2 hrs.)

342B Ballet Technique and Theory VI (3). Continuation of Cons. 341B.

342M Modern Dance Technique and Theory VI (3). Continuation of Cons. 341M.

404A Ballet Technique Non-Majors I (1). The applied and theoretical study of ballet including ballet pedagogy, analysis of movement and traditional ballet vocabulary. Outside reading and written reports required.

404B Ballet Technique for Non-Majors II (1). The applied and theoretical study of ballet, including ballet pedagogy, analysis of movement, and traditional ballet vocabulary. Outside reading and written reports required.

405A Modern Dance Repertory I (1). 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.
405B Modern Dance Repertory II (1). Continuation of Dance 405A. Prerequisites: Dance 341M Modern Dance Technique and Theory V or higher.

413A Advanced Pas de Deux I (1). 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: 441B Ballet Technique and Theory VII or higher.

413B Advanced Pas de Deux II (1). Continuation of Dance 413A. Prerequisites: 441B Ballet Technique and Theory VII or higher.

415A Variations I (1). 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 IV

415B Variations II (1). Continuation of Dance 415A. Prerequisites: Dance 342B Ballet Technique and Theory IV

416A Performance Techniques III (1). 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.

416B Performance Techniques IV (1). 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.

441B Ballet Technique and Theory VII (3). Continuation of 342B on the advanced level. (Modern emphasis students - minimum of 3 classes per week required (MWF) 2 hrs.)

441M Modern Dance Technique and Theory VII (3). Continuation of 243M on the advanced level. (Ballet emphasis students - minimum of 3 classes per week required. (MWF) 2 hrs.)

442B Ballet Technique and Theory VIII (3). Continuation of Cons. 441B.

442M Modern Dance Technique and Theory VIII (3). Continuation of 243M on the advanced level. (Ballet emphasis students - minimum of 3 classes per week required. (MWF) 2 hrs.)

493 Senior Recital I (2). 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.

494 Senior Recital II (2). 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.

Accordion Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


100D Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman Cello I (2-4).

102 Freshman Cello II (2-4).

201 Sophomore Cello I (2-4).

202 Sophomore Cello II (2-4).

301 Junior Cello I (2-4).

302 Junior Cello II (2-4).

401 Senior Cello I (2-4).

402 Senior Cello II (2-4).

Clarinet Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


100D Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman Clarinet I (2-4).

102 Freshman Clarinet II (2-4).

201 Sophomore Clarinet I (2-4).

202 Sophomore Clarinet II (2-4).

301 Junior Clarinet I (2-4).

302 Junior Clarinet II (2-4).

401 Senior Clarinet I (2-4).

402 Senior Clarinet II (2-4).

Euphonium Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.
primary performance study. No jury examination is required. Consent of the instructor.


100D Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman Euphonium I (2-4).
102 Freshman Euphonium II (2-4).
201 Sophomore Euphonium I (2-4).
202 Sophomore Euphonium II (2-4).
301 Junior Euphonium I (2-4).
302 Junior Euphonium II (2-4).
401 Senior Euphonium I (2-4).
402 Senior Euphonium II (2-4).

Flute Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


100D Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman Flute I (2-4).
102 Freshman Flute II (2-4).
201 Sophomore Flute I (2-4).
202 Sophomore Flute II (2-4).
301 Junior Flute I (2-4).
302 Junior Flute II (2-4).
401 Senior Flute I (2-4).
402 Senior Flute II (2-4).

Guitar Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


100D Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman Guitar I (2-4).
102 Freshman Guitar II (2-4).
201 Sophomore Guitar I (2-4).
202 Sophomore Guitar II (2-4).
301 Junior Guitar I (2-4).
302 Junior Guitar II (2-4).
302J Junior Guitar II (Jazz) (2).
401 Senior Guitar I (2-4).
401J Senior Guitar I (Jazz) (2).
402 Senior Guitar II (2-4).
402J Senior Guitar II (Jazz) (2).

Harp Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


101 Freshman Harp I (2-4).
102 Freshman Harp II (2-4).
201 Sophomore Harp I (2-4).
202 Sophomore Harp II (2-4).
301 Junior Harp I (2-4).
302 Junior Harp II (2-4).
401 Senior Harp I (2-4).
402 Senior Harp II (2-4).

Horns

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


100D Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman Horn I (2-4).
102 Freshman Horn II (2-4).
201 Sophomore Horn I (2-4).
202 Sophomore Horn II (2-4).
301 Junior Horn I (2-4).
302 Junior Horn II (2-4).
401 Senior Horn I (2-4).
402 Senior Horn II (2-4).

Oboe Courses

100A Preparatory Applied Study (2). 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.

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.


100D Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman Oboe I (2-4).
102 Freshman Oboe II (2-4).
201 Sophomore Oboe I (2-4).
202 Sophomore Oboe II (2-4).
301 Junior Oboe I (2-4).
302 Junior Oboe II (2-4).
401 Senior Oboe I (2-4).
402 Senior Oboe II (2-4).

Organ Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


100D Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman Organ I (2-4).
102 Freshman Organ II (2-4).
201 Sophomore Organ I (2-4).
202 Sophomore Organ II (2-4).
301 Junior Organ I (2-4).
302 Junior Organ II (2-4).
401 Senior Organ I (2-4).
402 Senior Organ II (2-4).

Percussion Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


101 Freshman Percussion I (2-4).
102 Freshman Percussion II (2-4).
201 Sophomore Percussion I (2-4).
202 Sophomore Percussion II (2-4).
301 Junior Percussion I (2-4).
302 Junior Percussion I (Jazz) (2).
302J Junior Percussion II (Jazz) (2).
401 Senior Percussion I (2-4).
401J Senior Percussion I (Jazz) (2).
402 Senior Percussion II (2-4).
402J Senior Percussion II (Jazz) (2).

Piano Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


100D Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman Piano I (2-4).
102 Freshman Piano II (2-4).
201 Sophomore Piano I (2-4).
202 Sophomore Piano II (2-4).
301 Junior Piano I (2-4).
301J Junior Piano I (Jazz) (2).
302 Junior Piano II (2-4).
302J Junior Piano II (Jazz) (2).
401 Senior Piano I (2-4).
401J Senior Piano I (Jazz) (2).
402 Senior Piano II (2-4).
402J Senior Piano II (Jazz) (2).

Saxophone Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


100D Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman Saxophone I (2-4).
101J Freshman Saxophone I (Jazz) (2).
102 Freshman Saxophone II (2-4).
102J Freshman Saxophone II (Jazz) (2).
201 Sophomore Saxophone I (2-4).
201J Sophomore Saxophone I (Jazz) (2).
202 Sophomore Saxophone II (2-4).
202J Sophomore Saxophone II (Jazz) (2).
301 Junior Saxophone I (2-4).
301J Junior Saxophone I (Jazz) (2).
302 Junior Saxophone II (2-4).
302J Junior Saxophone II (Jazz) (2).
401 Senior Saxophone I (2-4).
401J Senior Saxophone I (Jazz) (2).
402 Senior Saxophone II (2-4).
402J Senior Saxophone II (Jazz) (2).

String Bass Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


100D Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman String Bass (2-4).
102 Freshman String Bass (2-4).
201 Sophomore String Bass (2-4).
202 Sophomore String Bass (2-4).
301 Junior String Bass (2-4).
302 Junior String Bass (2-4).
302J Junior String Bass (Jazz) (2).
401 Senior String Bass (2-4).
401J Senior String Bass (Jazz) (2).
402 Senior String Bass (2-4).
402J Senior String Bass (Jazz) (2).
100B Applied Study of a Second Instrument (2). 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.


100D Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman String Bass I (2-4).
102 Freshman String Bass II (2-4).
201 Sophomore String Bass I (2-4).
202 Sophomore String Bass II (2-4).
301 Junior String Bass I (2-4).
301J Junior St Bass I (Jazz) (2).
302 Junior String Bass II (2-4).
302J Junior St Bass II (Jazz) (2).
401 Senior String Bass I (2-4).
401J Senior St Bass I (Jazz) (2).
402 Senior String Bass II (2-4).
402J Senior St Bass II (Jazz) (2).

Trombone Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman Trumpet I (2-4).
101J Freshman Trumpet I (Jazz) (2).
102 Freshman Trumpet II (2-4).
102J Freshman Trumpet II (Jazz) (2).
201 Sophomore Trumpet I (2-4).
201J Sophomore Trumpet I (Jazz) (2).
202 Sophomore Trumpet II (2-4).
202J Sophomore Trumpet II (Jazz) (2).
301 Junior Trumpet I (2-4).
301J Junior Trumpet I (Jazz) (2).
302 Junior Trumpet II (2-4).
302J Junior Trumpet II (Jazz) (2).
401 Senior Trumpet I (2-4).
401J Senior Trumpet I (Jazz) (2).
402 Senior Trumpet II (2-4).
402J Senior Trumpet II (Jazz) (2).

Tuba Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


101 Freshman Tuba I (2-4).
102 Freshman Tuba II (2-4).
201 Sophomore Tuba I (2-4).
202 Sophomore Tuba II (2-4).
301 Junior Tuba I (2-4).
302 Junior Tuba II (2-4).
401 Senior Tuba I (2-4).
402 Senior Tuba II (2-4).

Viola Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


100D Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman Viola I (2-4).
102 Freshman Viola II (2-4).
201 Sophomore Viola I (2-4).
202 Sophomore Viola II (2-4).
301 Junior Viola I (2-4).
Violin Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


100D Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman Violin I (2-4).
102 Freshman Violin II (2-4).
201 Sophomore Violin I (2-4).
202 Sophomore Violin II (2-4).
301 Junior Violin I (2-4).
302 Junior Violin II (2-4).
401 Senior Violin I (2-4).
402 Senior Violin II (2-4).

Voice Courses

100A Preparatory Applied Study (2). 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.

100B Applied Study of a Second Instrument (2). 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.


100D Applied Study for the Non-Music Major (1). Nine one-half hour lessons. No jury required.

101 Freshman Voice I (2-4).
102 Freshman Voice II (2-4).
201 Sophomore Voice I (2-4).
202 Sophomore Voice II (2-4).
301 Junior Voice I (2-4).
302 Junior Voice II (2-4).
401 Senior Voice I (2-4).
402 Senior Voice II (2-4).
School of Nursing

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School of Nursing
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Dean:
Lora Lacey-Haun
Associate Dean for Graduate Studies:
Katharine Smith
Associate Dean for Undergraduate Studies:
Thad Wilson

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).

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 Street. Applicants should complete the regular UMKC application for admission, as well as a supplemental application to the School of Nursing.

Applications and transcripts should be mailed to the UMKC Office of Admissions, 120 Administrative Center, 5100 Rockhill Road, Kansas City, MO 64110-2499.

The School recommends that applicants who wish to be enrolled for the summer or fall semesters should apply for admission and have all application materials sent by February 1. Applicants who wish to enroll for the winter semester should have all application materials sent by September 1. 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:

- Helen Blond Scholarship;
- Laura Larkin Dexter Scholarship;
- Hedgepeth Scholarship;
- John S. Waggoner Memorial Nursing Scholarship;
- DHHS Public Health Service Professional Nurse Traineeship (when available).

Other funds may be available for students demonstrating financial need. Applications for nursing scholarships are considered after submission of the FAFSA. Further information about applications and qualifications for any of these funds may be obtained from the School of Nursing Student Services Office, Room 123, 2220 Holmes, Kansas City, MO 64108-2676.

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. Students applying to the School of Nursing who are registered nurses must take the National Council Licensure Examinations (NCLEX) for licensure as a registered nurse in Missouri. 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 Organization
Membership in the Student Nurses Organization (SNO) is automatic for all students admitted to and enrolled in the School of Nursing. 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 senior undergraduate students and as continuing graduate students. Membership, based on 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.
Bachelor of Science in Nursing (B.S.N.)

Pre-Licensure Option

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 now offers an innovative program in the management of health.

Pre-Nursing Admission Criteria for High School Applicants

1. Graduation from an accredited United States high school or equivalent.
2. Demonstration of ability to perform successfully at the college level, as evidenced by a combination of high school grade-point average, rank and American College Test (ACT) score.
3. Required high school college-preparatory curriculum as noted in Regular Admission from High School.

Pre-Nursing Admission Criteria for Transfer Students

1. Students may apply without having taken the ACT exam, provided the student has completed a minimum of 24 hours of college credit at the time the application is submitted to the UMKC Admissions Office.
2. A transfer GPA of 2.75 (on 4.0 scale) or higher for all college credit attempted or earned. Official college transcripts must be submitted.

Admission into the clinical major is competitive. Students must be admitted to UMKC and have a 2.75 GPA for all courses required in the nursing program attempted or earned. All pre-requisite courses, 36 hours minimum, will need to be completed for consideration by the Admission & Progression Committee for the following fall admission. Completed courses must include: Chemistry w/lab, Microbiology, Anatomy & Physiology, N101 and A&S100. The application consists of a personal statement, completion of the TEAS exam, submission of copies of required immunizations, a copy of CPR certification, and proof of health insurance. The application submission deadline is Jan. 31. Again, admission to the clinical major is competitive and based on individual academic achievement without discrimination due to age, creed, ethnic origin, marital status or gender. In compliance with the Missouri Nurse Practice Act (Chapter 335 of the Missouri Statutes, section 335.066), nursing program applicants should be aware that the Missouri State Board of Nursing may refuse to issue a license for specific reasons related to moral turpitude, intemperate use of alcohol or drugs, or conviction of a crime.

General Education & Nursing Curricular 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.

Fall Semester Year 1 (18 hours)

- AS100 Methodologies for Pre-Health (3)
- N101 Introduction to Nursing (2)
- N120 Anatomy & Physiology I (4)
- Engl 110 English I (3)
- Math 110 College Algebra (3)
- LS Micro 112 Microbiology & Man (3)

Winter Semester Year 1 (18 hours)

- Apply to Clinical Major
- Chem 115 Chemistry (4)
- Chem 115L Chemistry Lab (1)
- N160 Anatomy & Physiology II (4)
- Psych 210 General Psychology (3)
- Fine Arts Humanities Elective (3)
- Pol Sc 210 American Government (3)

Fall Semester Year 2 (18 hours)

- Engl 225 English II (3)
- Health & Aging (3)
- N220 Fundamental Concepts & Skills (6)
- N250 Health Assessment (3)
- N395 Pathophysiology (3)
- Complete WEPT

Winter Semester Year 2 (17 hours)

- Chem 206 Nutrition (3)
- N 252 Human Growth and Development (3)
- N256 Pharmacology (3)
- N262 Management of Adult Health (5)
- ComS 431 Colloquium in Interpersonal Dynamics (3)

Fall Semester Year 3 (16 hours)

- Phil 210 or 222 Foundations of Philosophy (3)
- N342 Legal & Ethical Issues (2)
- N345 Quantitative Analysis in the Health Sciences (3)
- N364 Management of Maternal & Family Health (8 weeks) (4)
- N366 Management of Child & Adolescent Health (8 weeks)(4)

Winter Semester Year 3 (15 hours)

- Spanish for Health Care Professionals or other (3)
- N360 Management of Mental Health (4)
- N362 Management of Adult Health II (5)
- N476 Scientific Inquiry (3)

Fall Semester Year 4 (14 hours)

- Socio-Political Elective (3)
- Nursing Elective (2)
- N465 Management of Community & Public Health (8 weeks) (4)
- N467 Management of Critical & Emergent Care (5)

Winter Semester Year 4 (12 hours)

- N462 Special Topics in Health Care (2)
- N468 Effectiveness in Complex Health Systems II (6)
- N472 Clinical Internship (4)

R.N. to B.S.N.

The University of Missouri-Kansas City School of Nursing B.S.N. completion program is designed to prepare baccalaureate graduates who can function successfully within the present and future health care system. This innovative program is designed to develop and foster effectiveness, both personally and interpersonally in managing health outcomes in our complex health care delivery system. Using a transformational model, this integrated curriculum addresses the needs of students, health care organizations and the nursing profession.
The program will admit full- or part-time cohort groups to a flexible modular curriculum. Convenience and accessibility are maximized for the working nurse by scheduling courses in convenient blocks of time. Additionally, all core nursing courses are reflective of the needs of the adult learner. Students who choose full-time study can complete the program in 18 months.

Clinical practica focus on projects that meet community needs identified in collaboration with health care organizations. Student outcomes reflect enhanced ability to do complex problem solving (particularly in teams); increased professionalism; more sophisticated leadership and management skills; and change process skills. Students are encouraged to engage in a process of self-transformation in an atmosphere of support and team process. Students are partners with the faculty in their educational process and outcomes.

Admission Criteria
Each applicant must meet the following minimum criteria for admission to the School of Nursing:

1. Graduation from a state board of nursing-approved school of nursing;
2. Current licensure as a registered nurse in the United States and eligibility for licensure in Missouri;
3. Cumulative grade-point average of 2.5 (4.0 scale) from the basic school of nursing and all previous/subsequent college coursework.

General Education Requirements
Students complete 63 credit hours in general education coursework that may include the humanities, mathematics and social, behavioral and natural sciences. All students must complete at least 24 of the 63 hours at a four-year university.

The University requires that all students complete a three-hour constitution course. UMKC courses that currently satisfy this requirement include: Hist 101, 102, 360R or Pol Sc 210. The University also requires successful completion of the Written English Proficiency Exam (WEPT), which students must complete prior to N481. In addition, students must complete:

- English Composition I & II
- Logic OR Philosophy
- Anatomy and Physiology
- Microbiology
- General Chemistry
- Statistics (upper-division)
- 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 or;
- Completion of specific coursework for graduates of diploma programs and non-NLNAC associate degree programs. Policies regulating advanced placement are available in the School of Nursing Student Services Office.

Thirty-seven 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 with a minimum amount of classroom time. 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.

Prior to beginning the “Blocks,” students must successfully pass the Written English Proficiency Test (WEPT). The nursing curriculum consists of:

- N401 Health Assessment (3)
- N476 Scientific Inquiry (3)
- N481 Tools for Personal Effectiveness (5)

- Professionalism
- Historical Roots of Health Professions
- Power Bases and Image
- Time and Stress Management
- Career Mapping
- Standards
- Moral Development and Values
- Critical Thinking and Decision Making
- Informatics/Data Sets

- N482 Tools for Interpersonal Effectiveness (5)
- Conflict Resolution and Negotiation
- Communication Skills and Theories
- Managing Change
- Ethics
- Groups and Teams
- Legalities of Health Care
- Marketing

- N483 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

- N484 Effectiveness in Complex Health Systems (6)
- Quality Management
- Systems Theory
- Health Care Delivery Systems (managed care)
- Organizational Theories and Culture
- Politics, Use of Legislative System
- Leadership Styles and Theories
- Budget & Health Care Finance
- Impact of Future Managerial and Societal Paradigm Changes on Health Care

- N485 Application to Practice I (clinical project) (2)
- N486 Application to Practice II (clinical project) (3)
- N487 Writing for Nursing Sciences (1)
- Nursing Elective (3)

R.N. to M.S.N.
This program exists for R.N. students who have the ability and desire to acquire the master's degree in nursing. This program facilitates efficient progression through essential components of the existing B.S.N. program and a more expeditious entry into graduate study. On completion of the program, the student will be awarded both the B.S.N. and M.S.N. degrees.

In addition to meeting admission, general and nursing education requirements as outlined above, students seeking admission into the R.N.-M.S.N. option must have:

1. A cumulative GPA of 3.2 (4.0 scale);
2. Minimum clinical practice is required for some M.S.N. program options. Check M.S.N. Admission criteria section to be certain of eligibility.

In the undergraduate phase of the program, students must complete 21 hours of general education from a four-year college or university, take 2 hours of N486 Application to Practice II, and are not required to take the nursing elective.
Program Requirements
Students may make a minimum grade of C in undergraduate nursing courses in compliance with School of Nursing policy with one exception: Students must receive a minimum grade of B in their upper division statistics course. In addition, students in this program must maintain an overall GPA of at least 3.2 for their last 60 hours in order to be eligible to bridge to the Master of Science in Nursing program. For graduate program requirements, see the Master of Science in Nursing section.

Stop Out Point for B.S.N. Degree
Students not meeting criteria or who decide not to continue with master’s coursework will complete the following additional senior-level courses and graduate with a B.S.N. degree:

- N490 Special Topics: Application to Practice (1)
- 300-400 level non-nurse general education course (3)
- Nursing Elective (3)

Academic Regulations - All Programs
Nursing students are expected to be familiar with the 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).

Academic Dishonesty
Students in the School of Nursing abide by the University of Missouri Student Conduct Code (listed in the appendices of this catalog).

Advisement Policy
Each student is assigned a faculty advisor upon entry to the School of Nursing whose role is to advise on professional matters. If a student is experiencing difficulty in academic, financial or professional matters, the advisor is available to assist the student.

Immunization/Confidentiality/AIDS Policy
Prior to enrollment in course work, registered nurses must submit a copy of their nursing license. In addition all students must sign the “Personal Responsibility Statement” which attests to the student’s understanding of the general catalog, program guides, policies, and maintaining confidentiality during clinical rotations. It also verifies their understanding and knowledge of the UMKC AIDS policy and Center for Disease Control Universal Precautions for the prevention or the transmission of AIDS and other infectious diseases in client care.

Prior to enrollment in a clinical course, students must also submit written documentation of a TB skin test within the last 12 months, MMR or titer showing immunity, tetanus/diphtheria within the last 10 years, completion of the Hepatitis B series, their current Basic Cardiac Life Support Certification card (or Neonatal Resuscitation Program Certification card), criminal background check, possible drug screen and other documentation as required by the clinical agency. Failure to submit this information will result in the student’s inability to enroll in clinical courses (or removal from a clinical course), which could jeopardize completion of the student’s program of study as planned. R.N.-B.S.N. and graduate students must also be able to meet minimum expectations for performance in clinical coursework and professional nursing.

Leave of Absence
Under specific circumstances, students may be granted a leave of absence for one semester. A request for a leave of absence should be submitted to the appropriate Nursing Program Committee no later than two weeks prior to the beginning of the semester for which the leave is requested. In the event of unexpected emergencies, students may petition the appropriate Nursing Program Committee for a leave of absence within the semester in which the coursework is to be dropped. Petition forms can be obtained from the Nursing Student Services Office.

Students who do not maintain continuous enrollment (exclusive of summer sessions) will be required to complete an application for re-admission to the University and the School of Nursing and are liable for any intervening curriculum changes. Students who have been granted a leave of absence must complete a Request to Re-Enroll Form and may continue the curriculum under which they were initially admitted; however, enrollment in clinical courses may be affected and may extend the student’s matriculation. If the leave occurs during the clinical sequence, students are responsible to re-enter clinical course work at the same level of competency as their peers who were not on leave.

B.S.N. Academic Regulations

Academic Probation
The cumulative GPA for retention in the program is 2.75 (3.2 for R.N.-M.S.N. students).

- Students will be placed on academic probation whenever their semester GPA falls below 2.75.
- Students on academic probation must remove the probationary status their next enrolled semester.
- Students must maintain a 2.75 GPA each semester thereafter or they are automatically withdrawn from the School of Nursing.
- Students are responsible for keeping themselves informed of their academic status by reference to their final grade reports and by consultation with their advisor.

Option for Academic Minor
An academic minor may be taken in many departments in the College of Arts and Sciences. The academic minor is optional. The minor 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 with at least nine of those hours being upper-division courses. The courses and total number of hours are determined by the department granting the minor. A minimum of 9 hours for the minor must be earned at UMKC.

Undergraduate Graduation Requirement
Undergraduate students anticipating graduation from the School of Nursing or advancement into the M.S.N. program must complete the undergraduate assessment examinations during the last semester of coursework.

School of Nursing Courses

101 Introduction to Nursing (2). 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 inquiry-based practice 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 Offered: Winter/Summer/Fall
120 Anatomy & Physiology I (4). This introductory level course examines the structure and function of the human body from the molecular to the organ systems level. The interaction between structure and function is stressed as well as the interaction among all body systems across the life span. Co-requisite: laboratory exercises provide practical application of theoretical concepts. In this first term of a two term course, molecular biology, biochemistry, cellular biology and histology are studied as well as the integumentary, musculoskeletal, and nervous systems. Critical thinking and concept synthesis are emphasized on written and practical exams. Prerequisite: None. Offered: Fall/Winter

125 Medical Terminology (1). 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

127 Drug Calculations (1). The drug calculation course is designed to introduce the student to methods of drug dosage calculation needed for medication administration in the healthcare 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 utilizing three methods. Prerequisite: None. Restrictions: None. Offered: Fall/Winter

160 Anatomy and Physiology II (4). This introductory level course is a continuation and extension of Anatomy and Physiology I. The interaction between structure and function continues to be stressed as well as the interaction among all body systems across the life span. Co-requisite: laboratory exercises provide practical application of theoretical concepts. In this second term of a two term course, physiologic systems including endocrine, cardiovascular respiratory, digestive, renal and reproductive are studied. Embryology and genetics. Critical thinking and concept synthesis are emphasized on written and practical exams. Prerequisite: Nursing 120

220 Fundamental Concepts & Skills (6). This course focuses on fundamental concepts, skills and techniques that provide a foundation for more advanced areas of study. The beginning student will identify factors that may influence the human system and apply the nursing process in health care settings. Basic knowledge of nursing interventions. Four hours of lecture/discussion and six hours of clinical laboratory practice per week. Prerequisites: N101, N120, N160, CHEM115, CHEM115L1, LSMICRO113 Offered: Fall Restrictions: Acceptance into Clinical Nursing, Concurrent with N250.

250 Health Assessment (3). This course is designed to introduce the student to the examination and evaluation of the human system, the musculoskeletal, renal/urinary system, nervous system, the human system and applies the nursing process in health care settings using basic knowledge of nursing interventions. Four hours of lecture/discussion and six hours of clinical laboratory practice per week. Prerequisites: N101, N120, N160, CHEM115, CHEM115L1, LSMICRO113 Offered: Fall Restrictions: Acceptance into Clinical Nursing, Concurrent with N250.

259 Introduction to International Health Care (2-3). This course is designed to introduce students to the health care issues found in other countries with a focus on low and middle-income countries. Students will study philosophical, system and cultural aspects of health care and will be expected to compare health care in the United States with other nations. Core concepts include globalization; health care reform; organization and management of health care systems; community health care; public and private health finance; health care for vulnerable populations; end of life care; and the politics of health care policy. Prerequisites: N240

342 Legal & Ethical Issues (2). This course is designed to introduce the student to the legal framework of nursing as it applies to ethical decision making with the introduction of various ethical systems, concepts, and principles explored. Two hours of lecture/discussion per week. Prerequisites: Admission to the Nursing Major or BSN Completion Program Restrictions: Minimum grade of C in all major courses. Offered: Fall/Winter

345 Quantitative Analysis in the Health Sciences (3). This course focuses on descriptive and inferential statistics and discusses probability and the properties of the normal distribution. 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 measures of central tendency, measures of variation and graphic presentation of data precede the development of computational skills. This course consists of three hours of lecture/discussion per week. Offered: Fall; Winter. Restrictions: Nursing major or consent of instructor.

359 Introduction to International Health Care (2-3). This course is designed to introduce students to the health care issues found in other countries with a focus on low and middle-income countries. Students will study philosophical, system and cultural aspects of health care and will be expected to compare health care in the United States with other nations. Core concepts include globalization; health care reform; organization and management of health care systems; community health care; public and private health finance; health care for vulnerable populations; end of life care; and the politics of health care policy. Prerequisites: At least second year student in the UMKC School of Nursing or permission of instructor. Offered: Winter

360 Management of Mental Health (4). This is designed to introduce the student to psychiatric mental health nursing through the study of sound psychosocial concepts of rehabilitation, pain, substance abuse and end of life care. This second of two courses, care of clients with specific biological, psychological and social system alterations will be assisted to move to a higher level of health/wellness through use of referral, communication, collaboration, critical thinking and health care technology. In this second course, clients will be taught to earn 3 credit hours for the course. Prerequisites: Admission to the Clinical major Co-requisites: N360 and N476 Restrictions: Minimum grade of C in all major courses Offered: Fall/Winter

362 Management of Adult Health II (5). This course focuses on utilizing the nursing process to care for the 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 and two credit hours for clinical practice (120 clinical hours) are required. Prerequisites: Successful Completion of N262, including all prerequisites and co-requisites. Restrictions: Minimum grade of C in all major courses. Offered: Fall/Winter

364 Management of Maternal & Family Health (4). This course focuses on the application of the nursing process in the care of the family. Emphasis is placed on adaption during pregnancy, labor and postpartum period. Key concepts to be addressed include maternal, fetal, neonatal and family adaption throughout the pregnancy 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 for didactic and two credit hours for clinical practice (120 clinical hours) are required. Prerequisites: Successful Completion of N262, including all prerequisites and co-requisites. Restrictions: Minimum grade of C in all major courses. Offered: Fall/Winter

366 Management of Child & Adolescent Health (4). This course focuses on the application of the nursing process in the care of the pediatric client. Emphasis is placed on proven developmental and pediatric child health care and on acute care for the acutely ill pediatric client 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 and two credit hours for clinical practice (120 clinical hours) are required. Prerequisites: Successful completion of N262 including all pre-requisites and co-requisites. Offered: Fall/Winter
This course introduces students 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, healing modalities will include modalities such as: imagery, medicinal herbs, massage, yoga, meditation, holistic medicine, aroma therapy, energy medicine such as therapeutic touch and reiki, humor, nutrition, feng shui, music therapy, reflexology, acupuncture, accupressure, and chiropractic medicine. Prerequisite: None Offered: Fall
467 Management of Critical & Emergent Care (5). Focuses on the effects of complex and multisystem disorders. The uses and effects of technological systems in health care are explored as well as nursing interventions related to technology and health care. Two hours lecture/discussion and eight hours clinical practice per week. Prerequisites: successful completion of all 300 level Nursing courses. Restrictions: Minimum grade of C in all major courses. Offered: Fall

468 Effectiveness in Complex Health Systems (6). An exploration into the concepts of leadership and management in nursing. Various leadership theories, processes and behavior styles will be discussed. Includes content on employee management, fiscal management, and internal and external environment management. Three hours of lecture/discussion per week. Prerequisites: N446 Offered: Winter An exploration into the concepts of leadership and management in nursing. Various leadership theories, processes and behavior styles will be discussed. Includes content on employee management, fiscal management, and internal and external environment management. Three hours of lecture/discussion per week. Prerequisites: N450, N467, N446 Offered: Winter

472 Clinical Internship (4). Demonstrate in practice the culmination of knowledge and skills related to the professional nursing role. Sixteen hours of both supervised and independent practice and clinical skills with a skilled mentor in a hospital/out-patient setting per week. Prerequisites: Successful completion of all 300 level Nursing courses. Restrictions: Minimum grade of C in all major courses. Offered: Winter

476 Scientific Inquiry (3). This course is designed to prepare the student to understand the research process. The fundamental steps of the research process, including ethical issues will be discussed. Empirical studies will be evaluated for the potential of integrating the results into nursing practice. The role of research for the nurse generalist will be discussed. Prerequisites: Pre-licensure students: Completion of 14 hours of clinical coursework, e.g., N262, N364, and N366. RN to BSN/MSN nursing students: Admission into the RN to BSN/MSN program; BOTH N345. Offered: Fall

481 Block I: Tools for Personal Effectiveness (5). This five-credit course is the first course in the four-course sequence within the core-nursing component of the baccalaureate program. Within this course 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, the ability to manage time and stress, and the use of a career plan and informatics. Content appropriate to these areas will be covered within this course. Prerequisites: English Comp. II, N450 Offered: Fall

482 Block II: Tools for Interpersonal Effectiveness (5). This five-hour course is the second course in the four-course sequence within the core-nursing component of the baccalaureate program. Within this course the student will discover that interpersonal effectiveness is a prerequisite to effective management of the individual, family, and community. Interpersonal effectiveness is contingent upon an understanding of the ethical foundations of 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 management, decision, negotiation, cultural, marketing, team membership, group management, and communication techniques. Content appropriate to these areas will be covered within this course. Prerequisites: N481 Block I Offered: Fall

483 Block III: Effectiveness in Human Health Outcomes (6). This six-credit hour course is the third course in the four-course sequence within the core-nursing component of the baccalaureate program. Within this course the student will discover that effectiveness in human health outcomes builds upon acquired personal and interpersonal knowledge and skills, and is prerequisite to effectiveness in complex health systems. Effectiveness in human health outcomes is a primary goal for health care delivery across a continuum including health promotion, disease prevention, and illness care. The focus of this course will expand beyond health and disease management at the individual level to health and disease management at the community or aggregate level, including assessment, planning, program development, implementation, and evaluation of effectiveness of outcomes. Gaining effectiveness in human health outcomes across the well-illness continuum and across the individual-to-community continuum is contingent on an understanding of public health and community-based care, epidemiology, theories applying to aggregates within their environment, disease management, cultural competence, and case management. Content appropriate to these areas will be covered within this course. Prerequisites: N482 Offered: Winter

484 Block IV: Effectiveness in Complex Health Systems (6). This six-credit hour course is the fourth in the four-course sequence within the core-nursing component of the baccalaureate program. Within this course the student will discover that effectiveness in complex health systems builds upon acquired personal and interpersonal knowledge and skills, and upon effectiveness in human health outcomes. Effectiveness in complex health systems is contingent on an understanding of organizational culture and theories, systems theory, leadership and management theories, internal and external politics, the impact of future managerial and societal changes on health care, and health care delivery systems. Effectiveness in complex health systems is enhanced through the use of such skills as budget and health care finance, use of the legislative system, quality management, and leadership and management styles. Content appropriate to these areas will be covered within this course. Prerequisites: N483 Block III Offered: Winter

485 Application to Practice (2). This course is the first of two clinical application courses designed to complement didactic content from the four-course block sequence (N481-N484) within the core-nursing component of the baccalaureate program. Within this course the student will discover that the knowledge they are acquiring in didactic course work can be immediately applied to practice. Working in cohort teams, the student will progress through the first three phases of teamwork as they practice community and organizational assessment, problem identification, action planning, and start implementing their action plan as new skills and knowledge are applied to real issues and problems in the delivery of nursing care. Prerequisites/Corequisites: N481, N482, N483 Offered: Fall

486 Application to Practice (2-3). This course is the second of two clinical application courses designed to complement didactic content from the four-course block sequence (N481-N484) within the core-nursing component of the baccalaureate program. Within this course the student will discover that the knowledge they are acquiring in didactic course work can be immediately applied to practice. Working in cohort teams, the students will practice the application of 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 student 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 the complexity of community based organizations, practice settings, and communities. Student cohort groups 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 be complex, extending across two semesters. Prerequisites/Corequisites: N481, N482, N483 Offered: Fall

487 Writing for Nursing Sciences (1). This course is a companion course to the core nursing component of the baccalaureate program. Within this course the student will discover that good writing is essential in the nursing profession for effectively transmitting nursing practice and academic and professional dialogue. Regardless of whether the writing is on a patient’s chart, in a grant proposal, or a formal presentation, professional writing must be clear, precise, logical, and appropriate to the situation. The art and process of writing is complex and can only be learned by practicing writing. Content appropriate to the enhancement of professional writing skills will be covered within this class. Students will examine writing processes, learn to find and use resources for writing, write and present several types of papers for nursing. Prerequisites: Concurrent enrollment in N484 Offered: Winter

490 Special Topics (1-9). A course of study in a special area of interest in nursing under individual faculty direction. Prerequisite: Consent of instructor.
School of Pharmacy

Katz Pharmacy Building
5005 Rockhill Road
(816) 235-1609
Fax: (816) 235-5190
(816) 235-1613 (Student Services)
Fax: (816) 235-5562 (Student Services)
pharmacy@umkc.edu
http://www.umkc.edu/pharmacy

Mailing Address
University of Missouri-Kansas City
School of Pharmacy
113 Katz Pharmacy Building
5100 Rockhill Road
Kansas City, MO 64110-2499

Dean:
Robert W. Piepho
Associate Dean:
Wayne M. Brown
Assistant Dean:
Mary L. Euler

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.

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 science. Graduate-level degrees include the master of science in pharmaceutical science. Emphasis areas available in the master’s degree program are pharmacoeconomics (including pharmaceutical technology and pharmacoeconomics), pharmaceutical chemistry (including medicinal chemistry), pharmacology and toxicology. The School of Pharmacy participates in the Interdisciplinary Ph.D. program with emphasis areas in pharmaceutical science and pharmacology.

Doctor of Pharmacy (Pharm.D.)

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 patients quality of life (Hepler and Strand). A pharmacists 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 who graduate in the upper 10 percent academic ranking of their class, whose ACT composite score is a minimum of 23, or whose ACT composite score is a 28 or higher, irrespective of class rank, are eligible to apply for the Freshman Provisional Admission Program. As many as 30 provisional freshmen are accepted each year. Provisional students complete the pre-pharmacy coursework at UMKC and take the Pharmacy College Admissions Test during their freshman year. Students accepted into the provisional admission program hold a reserve seat in the first professional year of the Pharm.D. program if they successfully complete the freshman year eligibility requirements. Students meeting high school eligibility requirements should contact the Pharmacy Student Services office about this option early in the student’s senior year for more information, and to request a special application packet.

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 any accredited higher education institution or in the College of Arts and Sciences at UMKC.

Pre-Pharmacy Curriculum/Semester Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Minimum Required Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>6</td>
</tr>
<tr>
<td>Calculus with Analytical Geometry</td>
<td>4</td>
</tr>
<tr>
<td>General Chemistry I &amp; II with Lab</td>
<td>8</td>
</tr>
<tr>
<td>General Biology I &amp; II</td>
<td>6</td>
</tr>
<tr>
<td>Physics with Lab</td>
<td>4</td>
</tr>
<tr>
<td>Electives in Humanities and Social Sciences*</td>
<td>3-6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

*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 and pass the Written English Proficiency Test prior to enrollment in Pharmacy 414.

Pre-pharmacy coursework must total a minimum of 31 credit hours. General CLEP credits may not be used to fulfill the mathematics, physics, or chemistry requirements.

Doctor of Pharmacy Admissions

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 examination. The program of study emphasizes additional clinical sciences and 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 September 1 and January 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. Applications postmarked later than January 15 will not be considered. For application forms and information regarding admission, contact:

UMKC School of Pharmacy
Student Services Office
5005 Rockhill Road
Kansas City, MO 64110-2499
(816) 235-1613
Fax: (816) 235-5562
pharmacy@umkc.edu

Mailing Address
University of Missouri-Kansas City
School of Pharmacy
113 Katz Pharmacy Building
5100 Rockhill Road
Kansas City, MO 64110-2499

Application forms and information about degree programs and requirements are also available at http://www.umkc.edu/pharmacy. All of the steps listed below must be adhered to carefully for an application to be considered complete:

1. A completed UMKC application and School of Pharmacy supplemental application must be submitted to the School of Pharmacy by January 15;
2. Official transcripts of all previous college coursework must be received by the School of Pharmacy or the UMKC Office of Admissions by January 15. Applicants must have achieved a minimum 2.75 cumulative grade-point average (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;
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; and
4. Three official recommendation forms from the application packet must be received by the School of Pharmacy Office of Student Services no later than March 1;

5. Eligible applicants must complete a structured interview at the School of Pharmacy scheduled on a Saturday in March or April. Applicants are notified by mail before their scheduled interview. Please note: Meeting minimum eligibility requirements does not automatically qualify an applicant for an interview. Based on the academic credentials of the applicant pool, the school will select candidates for an interview. Students who do not qualify will also receive written notice;
6. Students whose native language is not English must follow the UMKC English Proficiency Requirements for International Students.

Advanced Standing Admission

An advanced standing curricular track has been established to allow students who have completed the coursework and met the minimum requirements to complete the Pharm.D. degree in four years after entry in the professional program. There are a limited number of spaces available for this option each year. The application procedures for advanced standing are the same as those listed for the Pharm.D. program listed above with the exception of higher cumulative grade-point average requirements and additional pre-requisite requirements as noted below. Applicants must have achieved a minimum 3.0 cumulative GPA (on a 4.0 scale) and a 2.75 minimum science/math GPA (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.

Advanced Standing Pre-Pharmacy Course Requirements

The following courses are prerequisites and must be successfully completed (grade of C or higher). These courses must be completed by the beginning of the fall term in which the applicant seeks to enter.

<table>
<thead>
<tr>
<th>General Education</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition I &amp; II</td>
<td>6</td>
</tr>
<tr>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>U.S. Constitution course</td>
<td>3</td>
</tr>
<tr>
<td>300 or 400 level Writing Intensives</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Basic Sciences</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Chemistry I &amp; II with Lab</td>
<td>8</td>
</tr>
<tr>
<td>General Biology I &amp; II</td>
<td>6</td>
</tr>
<tr>
<td>Calculus with Analytical Geometry</td>
<td>4</td>
</tr>
<tr>
<td>Physics with Lab</td>
<td>4</td>
</tr>
<tr>
<td>Human Anatomy with Lab*</td>
<td>4</td>
</tr>
<tr>
<td>Microbiology with Lab*</td>
<td>4</td>
</tr>
<tr>
<td>Cell Biology*</td>
<td>3</td>
</tr>
<tr>
<td>Organic Chemistry I with Lab*</td>
<td>4</td>
</tr>
<tr>
<td>Organic Chemistry II with Lab*</td>
<td>4</td>
</tr>
</tbody>
</table>

*Basic science courses must have been successfully completed no earlier than four years prior to the anticipated entry date in the Doctor of Pharmacy advanced standing program.

Notification of Acceptance

Students will receive written notification of the school’s decision concerning their applications on or prior to May 1 unless otherwise indicated.

Supplementary transcripts must be submitted to the Pharmacy Student Services Office upon completion of winter/spring and summer coursework. Acceptance is contingent on satisfactory completion (grade of C or higher) of the specified minimum hours of pre-professional collegiate coursework. Those students approved for admission will be required to confirm their acceptance and submit an advance deposit of $100 to guarantee their places in the entering class. This deposit is applied to the first educational fee and is not refundable.
Doctor of Pharmacy 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 not work outside the school 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 (semesters one and two) includes various required science courses and additional humanities and social science electives, 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, begin the service learning component, and finish the professional development series.

In semesters five and six, students engage in advanced lecture and laboratory coursework in the pharmaceutical and pharmacological sciences and introductory clinical sciences.

In semesters seven and eight, Pharm.D. candidates pursue advanced coursework in the clinical sciences to include therapeutics, evidence based medicine, and health assessment; and attend clinical practice rotations. During this period, students also select professional electives designed to reinforce the pharmacy career track.

The final two semesters encompass advanced clinical clerkship rotations. Drug literature evaluation, instruction, and practice will be an integral part of the clinical clerkship experience. Each student will be exposed to a core number of required and elective clinical clerkship experiences.

During clerkships 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 candidate’s activities will be the management of pharmacotherapeutic and pharmacokinetic problems encountered with patients’ drug regimens at the assigned practice site. Candidates also will 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 candidate’s experiential rotations, the primary focus will vary with a student’s choice of elective clerkship experiences. Health Systems’ rotations will focus on the organizational, technical and administrative aspects of providing pharmaceutical care.

Candidates are required to complete eight months of experiential rotations. Experiential clerkship rotation prerequisites include satisfactory completion of all degree requirements prior to semester nine of the professional curriculum. Candidates also must be certified as a basic cardiac life support (BCLS) provider and show proof of a current Missouri Intern license and coverage for pharmacy liability insurance. All immunizations, as listed in this section of the catalog, must be on file with the Office of Experiential Programs before clinical practice rotations begin.

Doctor of pharmacy students are strongly encouraged to attend the American Society of Hospital 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 pharmaceutical education for its students, the School of Pharmacy reserves the right of making judicious changes and improvements in course sequence and content at any time.

Pharm.D. Graduation Requirements
To graduate, Pharm.D. candidates must meet the following requirements in addition to the 31-credit-hour pre-requisite requirements:

Semester One
PHARM 101 Professional Skills Development I 2
PHARM 125 Medical Terminology 1
PHARM 151 Introduction to Pharmacy Law 1
LSANAT 119 Human Anatomy 1
LSANAT 119L Human Anatomy Lab 1
CHEM 321 Organic Chemistry I 3
CHEM 321L Organic Chemistry I Lab 1
LSBIOL 202 Cell Biology 3
COMS110 Fund. of Eff. Speaking and Listening 3
Total 18

Semester Two
Course covering the U.S. Constitution 3
PHARM 104 Professional Skills Development II 3
PHARM 266 Medical and Medication Error Evaluation and Management 3
CHEM 322R Organic Chemistry II 3
CHEM 322L Organic Chemistry II Lab 1
LSMCRB 121 Microbiology 4
Total 17

U.S. Constitution course Options
Pharmacy students must complete a course covering the U.S. Constitution. Following is a list of courses that will satisfy this requirement:
- HIST 101 American History to 1877;
- HIST 102 American History Since 1877;
- POLSC 210 American Government.

Semester Three
PHARM 245 *Top 200 Drugs I .5
PHARM 310 *Academic Service Learning I 1
PHARM 202 Pharmaceutics I 4
PHARM 341 Medicinal Chemistry I 3
LSBIOL 365 Human Biochemistry I 3
LSPHYS 399 Pharmacy Physiology I 3
General Elective (writing intensive) 3
Total *17.5

Semester Four
PHARM 245 *Top 200 Drugs I .5
PHARM 310 *Academic Service Learning I 1
PHARM 203 Pharmaceutics II 4
PHARM 344 Medicinal Chemistry II 3
PHARM 414 Professional Skills Development III 3
LSBIOL 366 Human Biochemistry II 3
LSPHYS 400 Pharmacy Physiology II 3
Total *17.5

*Pharmacy 245 and 310 can be taken in either the fall or winter semester (1/2 of the class each semester).

The following requirements must be on file in the Office of Experiential Rotations before enrollment in the Academic
Service Learning courses. Proof of immunizations, including Hepatitis B series, two MMRs, chicken pox and tuberculin skin test results, Basic Cardiac Life Support (BCLS) certification and Missouri Pharmacy Intern license.

**Semester Five**
- PHARM 345 **Top 200 Drugs II** .5
- PHARM 380 **Academic Service Learning II** 1
- PHARM 307 Disease Processes for Pharmacy I 3
- PHARM 361 Pharmacology I 4
- PHARM 465 Economics of Health and Medicine 3
- 300 or 400 level Writing Intensive Elective 3
  - Professional Elective 3
  - Total **17.5**

**Semester Six**
- PHARM 345 **Top 200 Drugs II** .5
- PHARM 380 **Academic Service Learning II** 1
- PHARM 303 Pharmacokinetics & Biopharmaceutics 4
- PHARM 308 Disease Processes for Pharmacy II 3
- PHARM 362 Pharmacology II 5
- PHARM 405 Pharmacotherapy I 3
- PHARM 463 Toxicology 2
  - Total **18.5**

**Semester Seven**
- PHARM 389 Advances in Drug Therapy 2
- PHARM 406P General Medicine I 4
- PHARM 420 Pharmacotherapy II 7
- PHARM 451 Pharmacy Law & Ethics 2
  - #Professional Elective(s) 5
  - Total #18

**Semester Eight**
- PHARM 326 Evidence Based Medicine 5
- PHARM 485P Pharmacotherapy III 5
- NURSING 401 Health Assessment and Diagnostic Reasoning 3
- General Elective 3
  - #Professional Elective 1-2
  - Total #19

#Students enroll in General Medicine I during the fall semester for 4.0 credit hours, the student half of the course during the fall and the remainder of the course during the winter semester. Winter re-enrollment is not required. Half the credit is counted during each semester.

##A minimum of 10 credit hours of professional elective coursework must be completed while enrolled in the School of Pharmacy. Successful completion of Pharmacy 307 & 308 will count toward one professional elective credit. Coursework completed before entry in the professional program will not transfer as professional elective credit. General and professional elective courses cannot be double counted. Courses count as either general electives or professional electives.

The following is a partial list of courses approved to satisfy professional electives.

- Home Health Care
- Principles of Nutritional Support
- Veterinary Pharmacology
- Computers in Pharmacy
- Radiopharmaceuticals
- Hospital Pharmacy
- Islam and Modern Practice of Medicine and Pharmacy
- 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
- Introduction to Natural Product Therapeutics

A current list of approved professional electives may be obtained from the Pharmacy Student Services Office or through the School of Pharmacy Web site.

**Semester Nine**
- Pharmacy Clerkships Hours vary

**Semester Ten**
- Pharmacy Clerkships Hours vary

###Available Clerkships
- PHARM 404P Drug Information Clerkship
- PHARM 406P General Medicine I
- PHARM 407P General Medicine II
- PHARM 409P Health Systems Clerkship
- PHARM 410P General Medicine III
- PHARM 412P Community Pharmacy Practice Clerkship
- PHARM 418P Elective Rotation

###Graduation Requirements
To graduate, students must successfully complete all required coursework listed in the curriculum for a minimum of 186 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 and cardiopulmonary resuscitation. The School of Pharmacy will provide direction in ways to complete those requirements. Within the 186 hours, the following minimums must be met:

- Mathematics/basic science coursework: 53 hours
- Humanities & social science coursework: 18 hours
- Pharmacy didactic coursework: 83 hours
- Professional electives: 10 hours
- Experiential learning: 32 hours

Humanities and social science course requirements (including pre-pharmacy coursework):

- English composition 6 hours
- Fundamentals of Effective Speaking and Listening 3 hours
- 300 or 400 Level Writing intensive courses 6 hours
- U.S. Constitution course 3 hours

Students with a previous baccalaureate degree completed at an accredited institution in the U.S. are exempt from the Written English Proficiency Test and the writing intensive requirements.

###Pharmacy Careers
A number of graduates choose to practice in community and hospital pharmacies, but a wide variety of career possibilities in the profession of pharmacy are available. Pharmacists have a wide spectrum from which to select the practice environment 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 $70,000 to $90,000.

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 United States 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.

Bachelor of Science in Pharmaceutical Science (B.S.)
The four-year bachelor of science in pharmaceutical science 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 science 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 science 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 science 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 science 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 science 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 science 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 science 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 science 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. Applicants may elect to complete the first two years of the B.S. in pharmaceutical science 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.

Application
Admission to the program requires a student to complete the UMKC general application. Completion of supplemental materials currently are not required. 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 and content at any time.

Description of the Curriculum

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<th>Semester One</th>
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<tr>
<td>English 110</td>
<td>English Composition I</td>
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<td>General Chemistry I</td>
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In order 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. The following courses will satisfy the communication skills general education core requirements (9 credit hours):

- English 110
- English 225
- Communication Studies 110

**Higher Order Thinking, Managing Information, and Valuing**

Students must possess the 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. Students will develop 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. Students should also attain the ability 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. The following courses will satisfy the higher order thinking general education core requirements (6 credit hours): Six hours from at least two different fields, chosen from the following list:

- Philosophy 210 or 222
- History 201, 202, 206 or 208
- Anthropology 103
- Sociology 103
- Computer Science 100 or above

**Social and Behavioral Sciences**

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. The following courses will satisfy the social and behavioral general education core requirements (9 credit hours): Constitution course chosen from: History 101, 102 or 360 or Political Science 210 and six additional credit hours from at least one field other than above, chosen from Economics, History, Political Science, Psychology, Sociology, Geography, or Criminal Justice.

**Humanities and Fine Arts**

Students must gain an 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. The following courses will satisfy the humanities and fine arts general education core requirements (6 credit hours): One 3-credit-hour course chosen from English, Communication Studies, Foreign Language, or Philosophy and one 3-credit-hour course chosen from Art/Art History, Conservatory or Theater.
Mathematics
In order to ensure that students have an understanding of fundamental mathematical concepts and their applications, they 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 following course will satisfy the mathematics general education core requirement (4 credit hours): Math 210

Life and Physical Sciences
In order 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 they 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. The following courses will satisfy the life and physical sciences general education core requirements (8 credit hours): One 4-credit-hour Life Science and one 4-credit-hour Physical Science, to include at least one laboratory component.

School Activities
Advising System
It is particularly important that students regularly meet with their faculty advisers to ensure that they are meeting all requirements and will have no deficiencies on entering the pharmacy curriculum.

On entry into the pharmacy program, each Pharm.D. student is assigned a faculty adviser. This adviser acts as a mentor during the program.

The adviser’s role during the time the student is enrolled in the pharmacy curriculum is to counsel and advise 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 their advisers. The advisers are familiar with the various sources of assistance and will help students seek the best solution to their problems.

Libraries
The University Libraries provide the full spectrum of information services to support study and research in pharmacy. For additional information, consult the University Libraries section of this catalog.

Student Services
The School of Pharmacy offers a variety of services to assist students in support of academic experience. Student services, which are available not only through the School of Pharmacy, but throughout the University, are outlined in the Division of Student Affairs section of this catalog.

Student Life
Student Government
The student body annually elects an Executive Pharmacy Student Council, which consists of the president, president-elect, executive vice president, vice president for professional projects, secretary and treasurer of the student chapter of the American Pharmacists Association, the Academy of Students of Pharmacy (ASP); two All Student Association representatives; 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. The Pharmacy Student Council Executive Committee, class officers and representatives from each of the student organizations recognized by the School of Pharmacy faculty meet on a regular basis to share concerns and to exchange information about each group’s activities.

The Student ASP Script
A student-administered, student-oriented newsletter is published twice each semester by the Academy of Students of Pharmacy (ASP) at UMKC. Its purpose is to inform the student body and faculty of the school 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 Students of Pharmacy (ASP)
This professional organization is the student branch of the American Pharmacists Association. 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.

Membership in ASP also includes subscriptions to several professional publications. 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. ASP coordinates many community health initiatives including Operation Immunization, Operation Diabetes and Project Outreach. Membership is encouraged of all Pharm.D. students. Pre-pharmacy students also are eligible to join.

Student National Pharmaceutical Association (SNPhA)
This professional organization is sponsored by the National Pharmaceutical Association and was established at UMKC in 1980. Membership is open to all pharmacy, pre-pharmacy and allied health field students at UMKC. SNPhA seeks to assist the School of Pharmacy in its recruitment and retention efforts with ethnic minority students and to increase an awareness among others in the school, University and community about minority health-care issues. One of its primary purposes is to provide pharmacy students with an organization that can deal with problems facing pharmacists in this country.

The National Community Pharmacy Association (NCPA)
The National Community Pharmacy Association is a national organization dedicated to representing pharmacists who practice in the independent retail setting. Membership in NCPA provides an excellent opportunity for students who are interested in independent retail 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 fraternity for women in pharmacy. 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, such as a food and clothing drive for the needy in the area and poison prevention programs. Individual members of Kappa Epsilon also participate in service projects sponsored by the school.
Kappa Psi
This national professional pharmaceutical fraternity for men was founded in 1879. The Gamma Theta Chapter of Kappa Psi was established at UMCK in 1957. Steeped in tradition, its purpose is to maintain the highest ideals of pharmacy through ethics, scholarship and fellowship. Both the Brother and Sister chapters plan many social and professional activities each year with emphasis on campus and community service projects.

Phi Delta Chi
Phi Delta Chi is a national coeducational professional pharmaceutical fraternity dedicated to the advancement of the profession of pharmacy and to the promotion of fraternalism. The Beta Epsilon chapter of Phi Delta Chi was established at UMCK in 1960. Members participate in community service projects such as hypertension screening, poison prevention education and blood drives. The goals of the chapter are to establish bonds and friendships in the organization and the School of Pharmacy to temper the difficulties all students meet in their years at school, and to obtain an understanding of brotherhood and professionalism.

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.

Student Society of Health-System Pharmacy
The Student Society of Health-System Pharmacy (SSHP) was founded at UMCK in the spring of 2000. SSHP is an affiliate of the Missouri Society of Health-System Pharmacists and also works closely with the Greater Kansas City Society of Health-System Pharmacists and the American Society of Health-System Pharmacists. Membership in SSHP is open to any student enrolled in the School of Pharmacy. Health-system pharmacists work in a variety of settings including hospitals, HMOs, long-term care, home care and clinical settings. Some of the events and activities of the student society include a shadowing program where students have the opportunity to spend a day with a health-system pharmacy practitioner and a series of residency roundtables.

Scholarships, Special Awards and Financial Assistance
The Dean’s List
At the end of each semester, the names of full-time doctor of pharmacy students whose term GPA is 3.5 or higher are placed on the dean’s list. These students receive a letter of congratulations and a notation is placed on their permanent records. Students must complete a minimum full-time program of 12 graded hours to qualify for the dean’s list. The credit/no credit option may not be used as part of the 12 hours.

Degrees With Honors
Students who meet the academic standards prescribed by the faculty will be graduated “with honors.”

An annual honors recognition program is held at the end of the final term in conjunction with the pharmacy graduation and awards banquet. At that time, recognition is given to 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. During this ceremony, student leaders also are recognized for their efforts on behalf of the School and the University.

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.

Alumni Award
The Alumni Association of the School of Pharmacy gives an engraved plaque to the graduate who has exhibited outstanding leadership in school affairs. Candidates are recommended by the scholarship and financial aid committee. Final selection is made by the board of directors of the Alumni Association.

The American College of Apothecaries Award
The graduating student who has shown outstanding scholastic achievement and participation in school activities receives an engraved silver bowl from the American College of Apothecaries.

APhA Academy of Students of Pharmacy Mortar and Pestle Professionalism Award
A replica of a rare Revolutionary War mortar and pestle is presented to the graduate who exhibits the ideals of professionalism and excellence in patient care and has demonstrated exceptional service and commitment to the profession of pharmacy through involvement in professional organizations and other extracurricular learning opportunities. This award is supported by McNeil Consumer Products Company.

American Pharmacists Association Service Award
A certificate is presented by the American Pharmaceutical Association to the graduating student who has done the most for the student branch of the association. Selection is made by the ASP Executive Board.

Joy Ashley Memorial Award
In memory of Mrs. Joy Ashley, a prominent member of the Pharmacy Foundation and the American Association of Retired Persons, cash awards and certificates of recognition are awarded to two students for their high ideals and commitment to the betterment of the profession.

Facts & Comparisons Clinical Communication Award
A set of engraved marble bookends, with a complete library of Facts and Comparisons, is presented by the Facts & Comparisons Division of J.B. Lippincott Company, St. Louis, Mo., to a graduating student, recognizing high academic achievement and outstanding clinical communication skills.

GlaxoSmithKline Award
An engraved plaque and volumes 1 and 2 of the USP-DI from GlaxoSmithKline Pharmaceuticals of Philadelphia, Pa., is presented 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 should 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 U.S. savings bond 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.

Pfizer Pharmaceuticals Outstanding Leader Award
An engraved plaque and a stipend are presented by Pfizer Pharmaceuticals of New York, N.Y., to an outstanding graduating student for a demonstrated record of accomplishment as an extraordinary leader with strong characteristics of integrity, work ethic, motivation, creativity and commitment. The student also must rank in the top 25 percent of the class.

Pharmacists Mutual Award
A gold-embossed reference book or 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.

Rho Chi Award
Honors are presented to a graduating student based on scholastic achievement, strengths of character, personality and leadership evidenced during residency in the School of Pharmacy. Selection is made by Rho Chi honor society.

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 certificate 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
Albertson's/Osco Drug Award Program
Cash awards and appropriate citations are made available annually by Albertson's/Osco Drug Company to students in the last three years of the doctor of pharmacy program. The recipients must be employed in a community pharmacy setting and reside in Missouri. Preference may be given to a current Albertson's/Osco Drug associate or to minority students.

American Institute for the History of Pharmacy Certificate
This award recognizes and encourages superior achievement in pharmaco-historical study or activity by a pharmacy student.

American Society of Health-System Pharmacists Student Leadership Award
This award is given to third-year doctor of pharmacy students interested in institutional pharmacy practice who have demonstrated a level of high scholastic achievement and leadership abilities from involvement in professional pharmacy organizations.

Wright V. and Gladys A. Bartholomew Scholarships
These scholarships are awarded competitively to two Pharm.D. students entering the third semester of the professional program in the School of Pharmacy. The students must have expressed interest in entering community after graduation. Pending satisfactory academic performance, these scholarships can be renewed for a maximum of four additional semesters.

Mary Bisceglia Memorial Scholarship Fund
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.

Century Club Grant for Clinical Pharmacy
The UMKC Pharmacy Foundation awards this grant to a third-year Pharm.D. student whose dedication to the area of clinical pharmacy is reflected by a desire to complete a doctor of pharmacy degree or pursue clinical practice.

Century Club Grant for Hospital Pharmacy
The UMKC Pharmacy Foundation awards this grant to a third-year Pharm.D. student who demonstrates both an interest in and the intention to practice hospital pharmacy after graduation.

Lewis D. DeClerck Memorial Scholarship
This scholarship is awarded to a second-year Pharm.D. student who ranks in the top 10 percent of the class and who exhibits leadership qualities.

Eckerd Corporation Community Pharmacy Scholarships
The Eckerd Drug Co. awards scholarships to four Pharm.D. students entering the second-year class who plan to practice community pharmacy after graduation.

Eisenbrandt Scholarship
A stipend is awarded to a student in years three through five of the professional pharmacy program who is excelling academically.

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 3.0 School of Pharmacy GPA. 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.

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 Fund
This scholarship was established in 1996 by the Guastello family and recognizes a deserving second- or third-year pharmacy student interested in practicing in a retail 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.

Kenner & Kavanaugh Scholarship
A scholarship for a student in the doctor of pharmacy program with evidence of financial need.

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.

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 four of the first professional program who has financial need.

J. Leo McMahon Grant
A stipend is awarded to a second professional year student who represents the caring and professional attitudes of Leo McMahon.

Joe McNERney Pharmacy Leadership Scholarship
This award is given to any doctor of pharmacy student 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.

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.

National Association of Chain Drug Stores (NACDS) Scholarship
Awarded to a second- or third-year pharmacy 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.

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. 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 grade-point average of 3.0 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).

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 retail setting after graduation.

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.

Stanley M. Reinhaus Family Foundation Scholarship
Second-year doctor of pharmacy students with a minimum 2.75 grade-point average 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.

The Joseph G. Shalinsky Scholarship Fund
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 Shalinisky 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 GPA average of 2.5, be involved in extracurricular activities and have financial need.

**The Anthony J. Spalitto, Sr. Scholarship**
Awarded to a doctor of pharmacy student in years 2 - 4 who has a minimum grade-point average of 2.5 and has expressed interest in independent community pharmacy. Financial need will be taken into consideration.

**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; cumulative GPA; and financial need.

**TrueCare Pharmacy Scholarships**
TrueCare Pharmacy, the Midwest’s first independent 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 internship hours in independent pharmacy and a minimum 2.5 GPA.

**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 GPA of 2.5 and an interest in independent pharmacy practice.

**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.

**Walgreen Student Scholarship**
This is an annual award to a pharmacy student entering their final professional year. The student should have a minimum overall GPA of 2.0; 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 Mathew 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.

**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; cumulative GPA; and financial need.

**Other Financial Assistance and Awards**
**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.

**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.

**Morris R. Shlensky Award**
The Morris R. Shlensky award was originally made available through officers of the Katz Drug Co., (now Osco), specifically for second- or third- professional-year students. Others considered are: non-traditional students (25 years or older, second career, single parent); financial need; rural Missouri resident; or minority student. The award is renewable for one additional semester.

**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, 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.

**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. 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 pharmacy 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 prior to the beginning of the first clinical practice 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, and 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 builds upon the instruction in the previous semester and builds upon knowledge needed for subsequent semesters. Students must enroll for the total program as outlined for each semester.

Exceptions to Professional Curriculum

Students are expected to satisfactorily complete all required courses and noncredit requirements in the professional curriculum. Any exception to the normal professional curriculum must be reviewed and 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. The KCASE program allows full-time students who are concurrently enrolled to take a course during the fall or winter semester at a participating college or university at no additional charge (except lab fees). 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.

Academic Probation

Pharmacy students are placed on academic probation if they receive any of the following:

- Less than a 2.0 term GPA;
- D grades in two or more courses taken outside the School of Pharmacy;
- A D grade in a course taught within the School of Pharmacy; or
- Less than a 2.0 cumulative GPA during one term.

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 term.

Academic Dismissal

Pharmacy students are considered ineligible to progress in the School of Pharmacy under any of the following conditions:

- Receipt of a D grade in any coursework in a single semester while on academic probation;
- Receipt of less than a 2.0 term GPA while on academic probation;
- Receipt of an F or a No Credit grade in any required course;
- Receipt of two grades of D in coursework taught within the School of Pharmacy in a single semester;
- Placement on academic probation for more than two non-consecutive terms;
- Receipt of two consecutive terms of less than a 2.0 cumulative GPA.

All such cases of probation or ineligibility will be reviewed carefully by the school’s committee on admissions and academic requirements to determine the reasons for the unsatisfactory progress. Students may be asked to appear before the committee to discuss probable causes for their academic difficulties.

The committee will then either propose a program whereby the students might make up the deficiencies and return to good standing or recommend termination. The student must sign an agreement with the program proposed by the committee to correct the deficiencies and will be governed by the committee’s proposal until the conditions stipulated in it have been satisfactorily met. 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 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 judgment about the student’s grade on that work and in that course.

Noncredit Requirements

All professional degree 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 is strongly encouraged over the general BCLS certification) each year starting prior to enrollment in the Pharmacy 310 Academic Service Learning I course. Certification must remain current and is required for progression to the next professional year.
2. Licensure as a Missouri Intern Pharmacist each year starting prior to enrollment in the Pharmacy 310 Academic Service Learning I course. Licensure must
condition of participation in patient care activities. Students should contact the Pharmacy Student Services Office by pharmacy liability insurance prior to the first day of a rotation. All of the experiential learning courses are 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.

No more than five credit hours of Pharmacy 497 courses may be counted toward the degree requirements. Pharmacy 497 courses are offered on a credit/no credit basis only.

Off-campus Learning Experiences
All 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.

Liability Insurance
Students who are completing internship requirements or who are enrolled in clinical practice coursework are encouraged to obtain pharmacy liability insurance. Students must be covered by pharmacy liability insurance prior to the first day of a school-sponsored clerkship or experiential experience. 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. Students wishing assistance for a drug related impairment may voluntarily seek counsel through the Pharmacist Recovery Network (PRN), a service supported by the Missouri Pharmaceutical Association. All students are subject to the rules and regulations of PRN.

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 Composition 110 and English 225. At the end of English 225, the WEPT is administered. Any student failing to pass the WEPT will be required to take English 299. After completion of English 299, the WEPT again will be administered. Any student failing the WEPT will be required to repeat the process (English 299 and WEPT) until successfully completing the WEPT. All students who have completed English Composition I and II elsewhere are required to take the WEPT. They, too, must abide by the rules of the exam to be eligible for graduation.

Independent Study
The opportunity to undertake independent study is offered through Pharmacy 497 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.

No more than five credit hours of Pharmacy 497 courses may be counted toward the degree requirements. Pharmacy 497 courses are offered on a credit/no credit basis only.

Continuing Education Programs
The School of Pharmacy is making a significant contribution to members of the pharmaceutical profession and allied health professionals by providing continuing education in pharmacy for the improvement of professional competence as it relates to drug utilization in disease states. Area needs, as they are identified by the profession, are met through conferences, short courses, home-study courses and seminars. The School of Pharmacy has been accredited as a provider of continuing education by the Accreditation Council for Pharmacy Education. For detailed information on offerings and services available, contact the associate dean.

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.

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 writing the secretary of the board of pharmacy of the state concerned.

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. Kansas internship requirements are presently 1,500 hours also.

The Missouri Board of Pharmacy will count up to 750 contact hours of the pharmacy experiential learning and clerkship courses toward doctor of pharmacy students’ internship hours.

Continuing Education Programs
The School of Pharmacy is making a significant contribution to members of the pharmaceutical profession and allied health professionals by providing continuing education in pharmacy for the improvement of professional competence as it relates to drug utilization in disease states. Area needs, as they are identified by the profession, are met through conferences, short courses, home-study courses and seminars. The School of Pharmacy has been accredited as a provider of continuing education by the Accreditation Council for Pharmacy Education. For detailed information on offerings and services available, contact the associate dean.

Pharmacy Courses
101 Professional Skills Development I (2). This course introduces students to the profession of pharmacy and professional skills of a pharmacist. This is the first of three courses with an integrated curriculum focused on professional skills development. Prerequisites: Admission to the Pharm D &/or Provisional Program. Restrictions: AU 50 & 52 Offered: Fall

104 Professional Skills Development II (3). 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: PHAR 101 Restrictions: AU 52 Offered: Winter 04
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110 Pharmacology Calculations (1). This 1-credit course provides instruction in pharmacy calculations including conversions of weights and measures, computation of doses, percent solutions, and dilutions. The application of formulas for solving problems which include pH, pKa, milliequivalents, ionic equilibrium, and osmolality are also emphasized. Finally, the properties of pharmaceutical dosage forms and their methods of preparation are also surveyed and discussed. Prerequisites: None Offered: Winter Restrictions: AU 51

125 Medical Terminology (1). This course will provide the necessary information towards proficieny in reading and understanding the meaning of common medical terms. 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

151 Introduction to Pharmacy Law (1). 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. Prerequisite: Admitted to the Pharm D program. Offered: Fall Restrictions: AU 52

202 Pharmaceutics I (4). Physicochemical properties of drug systems with consideration of incompatibilities and stabilization of pharmaceutical dosage forms, and physicochemical properties affecting drug action, degradation and bioavailability. Three hours lecture and three hours laboratory a week. Prerequisite: PHARM 110 & 104 Offered: Fall

203 Pharmaceutics II (4). 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: Pharmacy 202.

245 Top 200 I (0.5). 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 3. Offered: Winter semester Restrictions: AU 52 P3 (2nd prof year) standing

266 Medical & Medication Error (3). 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

303 Pharmacokinetics and Biopharmaceutics (4). 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.

307 Disease Processes for Pharmacy (3). An intensive introduction to the study of the alterations of normal physiologic functioning in cellular, tissue, organ, and organ systems. Prerequisites: ANAT 119, BIOCH 366, PHYS 400 Offered: Fall Restrictions: AU 52

308 Disease Processes II (3). Continuation of Disease Processes I.

310 Academic Service Learning I (1). 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 Level A

313 Career Planning (1). 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 lectures 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 goal, compensation packages and negotiations, and designing a path to accomplish career objectives. Prerequisite: Third or Fourth Year Offered: Fall Restrictions: Level A & B

321 Islam and Modern Practice of Medicine and Pharmacy (1). An elective course for students in Pharmacy and other health profession Schools. This course addresses the significant contribution of Muslim physicians and scientists to the modern practice of medical sciences and the impact of the Islamic culture on issues related to health care. Credit/No Credit Offered: Yearly Fall

323 Islam and Modern Practice of Medicine and Pharmacy (1). An elective course for students in Pharmacy and other health profession schools. This course addresses the significant contribution of Muslim physicians and

361 Pharmacology I (4). 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. Coserequisite: PHARM 307 or permission of instructor. Offered: Winter

362 Pharmacology II (5). The study of the pharmacology of medicinals with emphasis on drugs affecting the central nervous system, chemotheraphy, anti-microbial agents, and drugs used to treat endocrine disorders. Five hours lecture per week. Prerequisite: PHARM 361 or permission of instructor. Winter.

377 Principles of Nutrition Support (2). This course will introduce the student to the fundamentals of nutrition support and prepare him/her for future involvement in this important practice area. It teaches practical skills, including assessment of the patient’s nutritional status, estimation of calorie and protein requirements and how to recommend an appropriate formulation to meet these requirements. The student will learn indications for parenteral and enteral nutrition and how to select the most appropriate feeding. The student is taught how parenteral and enteral nutrition is safely administered, will learn the major complications, as well as methods to prevent or treat these problems. Topics covered include venous access, care of venous access devises, central vs. peripheral parenteral nutrition, fluid and electrolyte management, adimixture compatibility and stability, and management of the nutrition support patient in various disease states.

389 Advances in Drug Therapy (2). 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: Phar 303 Restrictions: Level A: AU 52 Offered: Fall

397 Home Health Care (2). 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 access, 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. Pharmacy I & Therapeutics I. Offered: Fall Semester.

404P Drug Information Clerkship (4). 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 the development of documents for pharmacy and therapeutics committees and service contracts of the Drug Information Center. Required rotations.

405 Therapeutics I (3). Therapeutics I integrates the fundamentals of pathology and basic drug knowledge to develop the student’s ability to provide pharmaceutical care. The course focuses on developing and applying problem-solving strategies in self-limiting illnesses. Two hours of lecture and 1.5 hours of small group discussion per week. Four, two-hour exams given outside of class time. Prerequisite: Pharmacy 307, 361 & 414 Offered: Winter Restrictions: AU 52 Level A

406P General Medicine I (4). The candidate will spend one month 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 setting. Emphasis in patient counseling and interviewing skills. Required rotation. Prerequisite: Successful completion of all coursework through semester 8. Offered: Fall/Winter Restrictions: AU 52 Level C

407P General Medicine II (6). The candidate will spend one month in a patient care service which is dedicated to the care of the ambulatory patient. The candidate is responsible for managing patients’ treatment. 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 setting. Emphasis in patient counseling and interviewing skills. Required rotation. Prerequisite: Successful completion of all coursework through semester 8. Restrictions: AU 52 Level C Offered: Fall/Winter

409P Health Systems Clerkship (4). 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. The candidate is responsible for the provision of patient care services to patients 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 setting. Practice settings will include direct pharmaceutical care within the practice setting (i.e., dispensing, counseling, provision of drug information, operations management and practice development). Required rotation. Offered: Fall & Winter Restrictions: AU 52 Level C


412P Community Pharmacy Practice Clerkship (4). The candidate will spend one month assigned to a faculty member whose practice is based in the community pharmacy setting. Emphasis of study will be on the organizational, technical and administrative aspects of providing comprehensive pharmaceutical services to patients in a community setting. Practice settings will include direct pharmaceutical care within the practice setting (i.e., dispensing, counseling, provision of drug information, operations management and practice development). Required rotation. Offered: Fall & Winter Restrictions: AU 52 Level C

414 Professional Skills Development III (3). In this course, the candidate will apply the communications skills from prerequisite course work. Emphasis of study will be on the communication skills necessary to provide pharmaceutical care. Included will be, patient interviewing, profile review, counseling, monitoring therapeutic regimens, communication dilemmas and communicating with other health-care providers. Additional training will be assessed on written and oral communication skills consistent with professional school students. Two 1 hour lecture and 1.5 hour small group discussion per week. Prerequisite: ComS 110 and one UMKC writing intensive course. Offered: Fall

418P Elective Clerkship (4). Elective experiences are an essential element to the candidates’ training. 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 of interest. Elective opportunities vary throughout the academic year. A list of electives is available from the Coordinator of Experiential Programs.

419P Directed Individual Rotations in Pharmacy Practice II (4). Elective experiences are an essential element to the candidates’ training. 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 of interest. Elective opportunities vary throughout the academic year. A list of electives is available from the Coordinator of Experiential Programs.

420 Pharmacotherapy II (7). Therapeutics II continues to develop the student’s ability to provide pharmaceutical care. The course focuses on developing and applying problem-solving strategies in complex disease states. Fourteen hours of lecture and four hours of group discussion per week. Five, two-hour exams are given outside of class time. Prerequisite: PHAR 303, 405, 362, 308. Offered: Fall Restrictions: AU 52 Level A

420P Directed Individual Rotation in Pharmacy Practice III (4). Elective experiences are an essential element to the candidates’ training. 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 of interest. Elective opportunities vary throughout the academic year. A list of electives is available from the Coordinator of Experiential Programs.

421P Directed Individual Rotation in Pharmacy Practice IV (4). Elective experiences are an essential element to the candidates’ training. 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 of interest. Elective opportunities vary throughout the academic year. A list of electives is available from the Coordinator of Experiential Programs.

423P Biostatistics for Pharmacy (3). Introduction and discussion of the use of descriptive and inferential statistical methods as used in the literature important to the practice of pharmacy. Content will include definitions and examples of statistical terminology. With focus on selection of appropriate statistical methods for data analysis, published literature will be used as assignment, as well as examples. Materials will include text books, computer assisted learning programs and reading from the primary literature. This course is restricted to students admitted to the Nontraditional Doctor of Pharmacy Program.

424 Introduction to Natural Product Therapeutics (2). The course is intended to provide students with the clinical knowledge necessary to avoid or minimize risk of harm when patients use natural products, important issues to consider when helping patients make decisions about use of these products, and skills in communicating with patients about supplements. Prerequisite: Fourth Prof Year Restrictions: AU 52 Level B Offered: Winter*

425P Ambulatory Care Clerkship II (4). Continuation of required Adult Medicine experience. This course is restricted to students admitted to the Non-Traditional Doctor of Pharmacy Program. Prerequisite: Phar 407P.

427 Hospital Pharmacy (2). 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. Three hours lecture per week for seven weeks. Elective. Winter.*

428 Veterinary Pharmacology (3). Pharmaceutical preparations used in veterinary medicine. Elective.

449 Clinical Economics & Medical Decision-Making (3). 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 medical literature assessing the economic impact 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.

451 Pharmacy Law and Ethics (2). 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

455P Clinical Pharmacokinetics (4). Clinical pharmacokinetics is an advanced course which emphasizes application of general concepts to individualization of drug dosing with respect to clinically important classes of drugs. Pharmaceutical Science faculty will be primarily responsible for conceptual/theoretical information and Pharmacy Practice faculty responsible for clinical application. Four lecture hours per week. Prerequisites: Pharmacy 202, Pharmacy 303 and approval of the instructor.

456P Clinical Practice II (1). Clinical Practice II is an introductory clerkship experience designed to prepare the Doctor of Pharmacy Candidate to organize information from the patient records and other sources of information and to present the patient case as it relates to rational pharmacotherapy. The experience consists of four rotations in clinical settings. Students will be expected to utilize the medical record, patient interview, and discussions with internists and other health care providers to conceptualize and present assigned patient cases. In this clinical clerkship candidates will be under the direct supervision of a Senior Partner with activities determined by a member of the faculty of their designee at the assigned site. Students are required to complete four clinical practice rotations during the semester. Students are assigned to a clerkship site for the equivalent of one day per week and may be expected to attend team-oriented patient care activities (i.e., rounds, conferences) as time permits. Prerequisites: Therapeutics; Pharmaceutokinetics; Drug Information. Candidates must be certified as a BCLS provider and be current on all immunizations prior to the beginning of the course.
Prerequisites: PHAR 315, 420, 455P and MO internship & professional liability insurance. Offered: Fall/Winter

457P Research Methods (2). An overview of research methods applicable to studies in pharmacy involving humans; course will compare and contrast research in the basic and clinical sciences. The ethics, regulation and practical aspects of study development, design, performance, analysis, interpretation and presentation will be discussed for different types of research in the clinical pharmacy sciences. Principles will be applied by the student in the development of research protocols. Pre-requisites: Drug Information, Biostatistics, Therapeutics II.

463 Toxicology (2). Fundamentals of toxicology, including discussion of the general classes of poisonous substances, their physiological effects, and methods of treatment. Prerequisite: Pharmacy 361 Offered: Winter

465 Economics of Health & Medicine (3). 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: On demand

484P Pharmacy Seminar (1). Pharm. D. Student Seminar course is designed to provide students with examples and reasoning behind the fundamentals of seminar preparation and delivery and opportunity to utilize their knowledge by presenting a seminar. This experience will be achieved through identification of a topic, development and presentation of a seminar. The student is expected to complete two 40-minute seminars over 2 semesters. Credit/no credit. This is an elective option. Prerequisite(s): Therapeutics III. Offered: Fall/Winter.

485P Therapeutics III (7). Therapeutics III continues to develop the student's ability to provide pharmaceutical care. The course focuses on further developing and applying problem-solving strategies in complex disease states with attention to therapeutic controversies. Four hours of lecture and two hours of discussion per week. Five, three-hour exams are given outside of class time. Prerequisite: Pharmacy 420 Restrictions: AU 52 Level B Offered: Winter

489AB Special Topics In Pharmacy (1-5).

489E Special Topics In Pharmacy (1-5). 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.

497E Directed Individual Study-Clinical Pharmacy (1-4). 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

498 Introduction to Research in Pharmacology (2). This course is to provide opportunity for the B.S.P.S. students to learn the basic research laboratory settings and skills and to gain the hands-on experience in common and advanced research approaches in pharmacology. Students will be introduced to selected examples of pharmacological research, including formulation of a hypothesis, performance of an experiment, analysis of experimental data, and presentation of results in forms of publications and conferences. A variety of state-of-the-art technologies that are being utilized in the Division of Pharmacology will be taught to the students as example procedures in Pharmacology research. Prerequisite: Pharmacology I Offered: Fall

499 Research Design Methods (2). This course will enable students to acquire new problem solving skills for biological situations. It will encourage participants to create & critique methodologically appropriate research designs, understand their choice and application in the life sciences, and interpret outcomes as a means to answer basic biological questions. It is intended to provide students with sufficient research maturity necessary to read life science literature and to actively seek out and explore novel approaches for new experimental designs and problems when they arise. Prerequisites: None Offered: Winter Restrictions: Phar AU 51
Pre-Medicine/Pre-Health

Description
Among the fastest-growing career areas are the health-related professions and this trend is likely to continue well into 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 maze 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. 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-Ophthalmic Technology (see section under College of Arts and Sciences)
- 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 and philosophy. But many other combinations in the 15 academic departments are possible, and advisers in the tracks will help students apply their interests to design the right combination.

Pre-Medicine/Dentistry
The purpose of the pre-medicine/dentistry curriculum is to prepare the student for application to medical/dental schools. Students may complete the pre-medicine/dentistry curriculum within any major.

The courses recommended in the pre-medicine/dentistry curriculum do not constitute an academic major but are the courses required for entrance into the majority of medical/dental schools in the United States and Canada. They also provide students with the information needed to obtain top scores on the Medical College Admission Test (MCAT) and Dental Admissions Test (DAT), which are required for entrance into medical and dental schools.

In addition to gaining a strong foundation in the sciences, pre-medicine/dentistry students will also 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 (8 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:
- Chemistry 211 General Chemistry I
- Chemistry 211L General Chemistry I Lab
- Chemistry 212R General Chemistry II
- Chemistry 212LR General Chemistry II Lab

C. Two semesters (8 semester hours) of organic chemistry with corresponding laboratories:
- Chemistry 321 Organic Chemistry I
- Chemistry 321L Organic Chemistry I Lab
- Chemistry 322R Organic Chemistry II
- Chemistry 322L Organic Chemistry II Lab

D. Two semesters (8 semester hours) of physics including laboratories:
- Physics 210 General Physics I
- Physics 220 General Physics II

E. Two semesters (6 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 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 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.
Enter into the program is available to students from Missouri
and Kansas who are nearing completion of their high school
education or are in the early years of their undergraduate
education. For more information about this program or to
request an application, contact the Office of Student Programs
at the School of Dentistry.

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; and
- 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; and
- Successful interview strategies.

College of Arts and Sciences Track
James Spence, MPA
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(816) 235-5874, spencejk@umkc.edu
Andrea Drew, Ph.D.
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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 may be
  combined with any major within the College of Arts and
  Sciences. This allows students the opportunity to
  complete the necessary prerequisite courses for admission
to medical/dental schools in the United States and
Canada.
- A freshman seminar for pre-health/pre-medicine
  students. Guest speakers discuss getting into medical
  school, and students investigate medical case studies and
  explore important issues such as “Is health care a right or
a privilege?”
- Interdisciplinary courses that examine the complicated
  nature of health care. Topics include the doctor-patient
  relationship, other aspects of health communication,
  health promotion and prevention and controversial issues
in bioethics.
- Medically related research projects in such areas as
  clinical health psychology, chemistry, and physics.
Current topics include disease prevention, psychological
and communication barriers to adherence, and factors
linking obesity, smoking, alcohol abuse, diet, and exercise
with cancer, cardiovascular disease, and HIV/AIDS.
Research partners include the Mid-America Heart
Institute, Saint Luke’s Hospital, UMKC Schools of
Dentistry and Medicine, and the Kansas City Free Health
Clinic.
- Dental-related research projects which investigate topics
  such as pain management, disease prevention,
  psychological barriers in the healing process, and the use
  of chemistry and physics to identify and construct new
polymers for use as posterior restorations.
- The Gerontology Certificate allows students to explore
  relevant medical and social issues of the new millenium
  as people live longer, our population ages, and “care”
becomes as important as “cure.”
- The Healing and Humanities Minor. Faculty from the
College of Arts and Sciences and School of Medicine
team up to offer courses that enhance an individual’s
ability to heal and to understand the complicated world of
health care. 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. Courses applying toward the minor include:

- Perspectives in Science and Healing
- Healing and Cultural Diversity
- Body Images in Medicine and the Arts
- Writing, Healing, and the Humanities
- Healing and the Arts
- Values, Policies, and Practices in Health Care

See the Healing and Humanities Minor under the College’s Interdisciplinary Minors and Concentrations section of this catalog for more information.

**School of Biological Sciences Track**

Lynda S. Plamann  
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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 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 Programs**

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.
Continuing Education

http://www.umkc.edu/ce

Description
Through credit courses, non-credit courses, conferences and institutes, residents of the community and state are provided the opportunity to continue their education in a manner uniquely suited to adult learners. Academic units at UMKC offer continuing education to extend their teaching resources beyond traditional programs.

Offerings include liberal arts lectures and seminars; professional, refresher, remedial and postgraduate courses; and educational programs designed for the analysis and study of major social and urban problems. Formal education also may be continued through credit courses or by enrollment in correspondence courses for academic credit. Frequently, public forums concerned with vital issues of the day are organized and offered in order to increase both the number and effectiveness of people who work toward solutions to community problems.

Non-credit continuing education activities are carefully planned undertakings, usually involving an academic department and an organized group from business, industry, government or the citizenry in general. Citizens throughout the state are served by UMKC through its relationship with the eight University of Missouri extension administrative regions.

Inquiries about specific program opportunities may be directed to the appropriate continuing education office listed below.

Division of Continuing Education Offices

Addiction Technology Transfer Center
Dean, (816) 235-2201
http://www.umkc.edu/ce/mattc

College of Arts and Sciences
Director, (816) 235-2736
http://www.umkc.edu/ce/college

Henry W. Bloch School of Business and Public Administration
Director, Continuing Education, (816) 235-2399
http://www.umkc.edu/ce/mba

School of Computing and Engineering
Director, Continuing Education, (816) 235-2022
http://www.umkc.edu/ce/ce

School of Dentistry
Director, Continuing Education, (816) 235-1188
http://www.umkc.edu/ce/dentistry

School of Law
Program Director, Continuing Legal Education, (816) 235-1648
http://www.umkc.edu/ce/law

Conservatory of Music
Coordinator, Continuing Education, (816) 235-2741

School of Nursing
Program Director, Nursing Continuing Education, (816) 235-1713
http://www.umkc.edu/ce/nursing

School of Pharmacy
Associate Dean, Continuing Education, (816) 235-2406
http://www.umkc.edu/ce/pharmacy

UMKC Northland
(816) 235-6630
http://www.umkc.edu/ce/northland

Credit Courses
Continuing education credit courses attract non-traditional students and provide alternate, non-traditional class times and locations. These courses can focus on cutting-edge topics based on recent events, current issues and, often, interdisciplinary perspectives.

Class meetings are typically scheduled for time periods and dates that accommodate the special needs of the client group to be served. Graduate credit may be earned by qualified applicants when the course has been approved for graduate credit. A simplified enrollment process is provided for these courses. People may enroll, providing they meet the eligibility requirements established for the class. The submission of transcripts or on-campus application is not required.

Registration for class is carried out in person at the program office, by mail or by phone. Students who plan to apply continuing education credit courses to a degree program need to get approval from the college, school or department.

To discuss specific interests, or for current schedules and registration information, contact the appropriate program office.

Non-credit Courses
Courses that do not carry college credit may be designed to meet a wide range of individual and community interests. Programs that draw on the unique resources of the University and find a ready acceptance in the community are offered on a recurring basis. Other programs may be designed to meet the specific interests of employers, community organizations and special-interest groups. Continuing education units, called CEUs, are awarded for selected non-credit offerings.

To discuss specific interests, or for current schedules and registration information, contact the appropriate program office.

Educational Conferences and Institutes
Through educational conferences and institutes, the University brings its resources to bear on the short-term educational requirements of the public and private sectors of the community. For many years the conference technique has been a reliable means for providing a quick and concise presentation of new information and problem analysis in business areas. It is a valuable instrument, both for updating professional knowledge and skills and for offering educational experience. CEUs are available for selected educational conferences and institutes.

Addiction Technology Transfer Center (ATTC)
ATTC provides curriculum design development, education and training on alcoholism and other drug dependencies for professionals in health, social services and criminal justice. UMKC is also the site for the National Addiction Technology Transfer Center, which coordinates all 14 regional centers throughout the nation. Call (816) 482-1100 for more information.

Continuing Education Unit
The continuing education unit has been established nationally as a measure of participation in continuing education activities.

Numerous professional societies and official licensing agencies welcome the CEU as a ready means of determining the extent to which people have fulfilled requirements for periodic continuing education study.

The determination of whether CEUs will be awarded for a particular program is made by the UMKC academic unit that has responsibility for the program content. Inquiry about the availability of CEU activities may be directed to the appropriate program office.
The Carolyn Benton Cockefair Chair in Continuing Education

When Carolyn Benton Cockefair left UMKC in 1966, her former students in the humanities wished to honor her by perpetuating community involvement in University affairs and in the humanities. Community-University cooperation led to the establishment of the Carolyn Benton Cockefair Chair in Continuing Education in the humanities.

Throughout its existence, many members of the community have participated in the chair’s lectures, courses and continuing education programs. Visiting professors, distinguished speakers and performing artists also have shared with the community, thanks to the Cockefair Chair. James Michener, John Kenneth Galbraith, Norman Cousins, Tom Wolfe, John Gardner, Jean Kirkpatrick, Kurt Vonnegut Jr., Gore Vidal, Loren Eiseley, Joseph Heller, David McCullough, Saul Bellow and John Updike are only a few of the chair-sponsored speakers.

You are cordially invited by the Cockefair Chair Advisory Committee to participate in the Cockefair Chair courses and programs. Call (816) 235-2736 for more information.

UMKC Northland

UMKC Northland provides Graduate and Advanced Studies Programs for Working Professionals in the Northland area of Kansas City. UMKC Northland is located on the upper level of the Metro North Mall, 400 N.W. Barry Road, Kansas City, Mo. The Division of Continuing Education is collaborating with the UMKC academic schools to sponsor off-campus degree programs, individual courses, and non-credit programs at the UMKC Northland. The following School of Education graduate degree programs can be completed entirely at the UMKC Northland site: M.A. in curriculum and instruction, M.A. in counseling and guidance, M.A. in educational administration, and educational specialist in educational administration.

Students may enroll either as part of a cohort or take classes individually, as needed. The cohort is a group of 20-25 students that collectively take the program and progress towards the degree together following a pre-set schedule. The cohort becomes an on-going professional network.

New professional development and continuing education programs are being created to serve the Northland area. The Division of Continuing Education is forming partnerships with community and business organizations to develop new programs, in response to the needs of business, industry and local governments. Call (816) 235-6630 for more information.
Faculty of the University of Missouri-Kansas City

* Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
# Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

College of Arts and Sciences

Architecture, Urban Planning and Design

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).

#*Michael Frisch; assistant professor of architecture, urban planning and design; M. City Planning (Massachusetts Institute of Technology); Ph.D. (Rutgers University).

Art and Art History

Eric J. Bransby; professor emeritus of art; B.A., M.A. (Colorado College); M.F.A. (Yale University).

Marilyn R. Carbonell; adjunct associate professor of art history and assistant director for collection development (library); B.A. (Knox College); M.A. (Northern Illinois University); M.A. (University of Iowa).

* Robert Cohon; assistant 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 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 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 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 and director of UMKC Gallery 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).

Andrew Wells; visiting artist/assistant professor of digital media and communication studies; M.F.A. (School of the Art Institute of Chicago).

Mary Wessel; visiting artist/assistant professor of photography; M.F.A. (School of the Art Institute of Chicago).

#*Rochelle N. Ziskin; assistant professor of art history; B.A. (University of Illinois-Chicago).

Chemistry

Keith R. Buszek; associate professor of chemistry; B.S. (University of California, Irvine); Ph.D. (University of California, Los Angeles).

*Kuang Lu Chung; 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 and physics; B.S. (Taipei Institute of Technology Taiwan); Ph.D. (Marquette University).

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**Deborah Smith:** associate professor of sociology and director of family studies; B.S., Ph.D. (Cornell University); M.A. (University of Minnesota).

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Faculty of the University of Missouri-Kansas City

Theatre
Peter Altman; visiting professor of theatre; Producing Artistic Director, Missouri Repertory Theatre; B.A. (University of California at Berkeley); M.A. (University of Pennsylvania).

*Louis Colaianni; associate professor of theatre.

Lindsay Davis; associate professor of theatre; B.A. (Harvard College); M.F.A. (New York University-Tisch School of the Arts).

*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).

Barry Kyle; professor of theatre arts; M.A. (University of Birmingham-U.K.).

#*Felicia Londe; curators’ professor of theatre; B.A. (University of Montana); M.A. (University of Washington-Seattle); Ph.D. (University of Wisconsin-Madison).

*Tom Mardikes; chair, department of theatre, and associate professor of theatre; B.A., M.F.A. (University of Missouri-Kansas City).

*Jennifer K. Martin; Hall Family Foundation Professor of Movement; B.S. (Bowling Green State University); M.F.A. (University of North Carolina-Greensboro); Ph.D. (University of Michigan).

*Joe Price; assistant professor of theatre; B.F.A. (University of Minnesota-Duluth); M.F.A. (Southern Methodist University).

Dennis Rosa; visiting professor of theatre; Artistic Director, UMVN (University of Missouri Video Network).

*Ronald Lee Schaeffer; associate professor of theatre; B.A. (Bradley University); M.A. (University of Missouri-Kansas City).

*Victor Tan; associate professor of theatre.

Stephen Buescher. Joe Krienke and Stephanie Thompson are in residence teaching physical theatre skills for graduate actors.

Jacques Burdick; professor emeritus of theatre.

Cal Pritner; professor emeritus of theatre.

Vincent Scassellati; associate professor emeritus of theatre.

*Douglas C. Taylor; professor emeritus of theatre.

School of Biological Sciences

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*Stephen J. King; assistant professor of biological sciences; B.S. (Cornell University); Ph.D. (University of Colorado-Boulder).

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#*Anthony Persechini; Molecular Biology and Biochemistry interim division head and associate professor of biological sciences; B.A. (University of New Hampshire); Ph.D. (Carnegie-Mellon University).

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Ken Mitchell
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#*Jerome Knopp; associate professor; B.S., M.S., Ph.D. (University of Texas-Austin).
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#*Ken Mitchell; associate professor; Ph.D. (University of Missouri-Kansas City).
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#*Peter Rogan; associate professor; Ph.D. (Yale University) (primary appointment: Children’s Mercy Hospital and UMKC School of Medicine).
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School of Dentistry
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* Zhou Long: visiting professor (composition); (Central Conservatory in Beijing); D.M.A. (Columbia University).

School of Nursing

#*Kathryn A. Ballou: assistant professor of nursing; B.S.N., M.S.N. (University of Missouri-Kansas City); Ph.D. (University of Alabama-Birmingham).

Susan Bennett: clinical instructor of nursing; B.S.N. (University of Missouri-Columbia); M.S.N. (University of Missouri-Kansas City).

#*Judith Beyer: associate professor of nursing; B.S.N.E. (Wilkes College); M.S. (Boston University); Ph.D. (University of Texas).

#*Terry A. Buford: assistant professor of nursing; B.S.N. (University of Missouri-Columbia); M.N. (University of Kansas); Ph.D. (University of Missouri-Columbia).

Carol Y. Byrd: assistant clinical professor of nursing; B.S.N. (Avila College); M.S.N., Ph.D. (University of Missouri-Kansas City).

Joyce E. Clement: clinical instructor of nursing; B.S.N. (University of Massachusetts); M.S.N. (University of Missouri-Kansas City).

M. Susan Emerson: clinical assistant professor of nursing; B.S.N., M.S.N. (University of Missouri-Kansas City); M.S., Ph.D. (Kansas State University).

#*MAith Enriquez: assistant professor of nursing; B.S.N. (Webster University); M.S.N., Ph.D. (University of Missouri-Kansas City).

#*Marjorie A. Fonza: clinical associate professor of nursing; B.S.N. (Marillac College); M.A. (Sangamon State University); M.S.N. (Southern Illinois University-Edwardsville); DNSc (Rush University).

#*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).

#*Jennifer Hunter: associate professor of nursing; B.S.N. (University of Tulsa); M.S.N., Ph.D. (University of Kansas).

Susan J. Kimble: clinical instructor of nursing; B.S.W. (University of Nebraska); B.S.N., M.S.N. (University of Missouri-Kansas City).

Mary L. Kinnaman: clinical instructor of nursing; B.S.N., M.N. (University of Kansas).

#*Steve Krantz: associate professor of nursing/education; B.A., M.S. (University of Utah); Ph.D. (Utah State University).

*Lora Lacey-Haun: dean, school of nursing, and professor of nursing; B.S.N., M.S.N. (University of Alabama-Birmingham); Ph.D. (University of Missouri-Kansas City).

Sandie Nabours: clinical instructor of nursing; B.S.N. (University of Texas-Austin); M.S.N. (University of Kansas).

#*Jana L. Pressler: associate professor of nursing; B.A. (Bradley University); M.A. (University of Iowa); Ph.D. (Case Western Reserve University).
**Lynn M. Rasmussen:** assistant professor of nursing; B.S.N., M.S.N. (University of Kansas); Ph.D. (University of Missouri-Kansas City).

**Jan Rice:** clinical instructor of nursing; B.S.N. (Avila College); M.S.N. (University of Missouri-Kansas City).

**Eric D. Roberts:** clinical instructor of nursing; B.S.N., M.S.N. (University of Missouri-Kansas City).

**Melissa Joy Roberts:** clinical instructor of nursing; B.S.N., M.S.N. (University of Missouri-Kansas City).

**Katharine (Kit) V. Smith:** associate dean, school of nursing; clinical instructor of nursing; B.S.N., M.S.N. (University of Missouri-Columbia).

**Katharine (Kit) V. Smith:** associate dean, school of nursing; clinical instructor of nursing; B.S.N., M.S.N. (University of Missouri-Columbia).

**Anita B. Singleton:** clinical instructor of nursing; B.S.N. (University of Kansas); M.S. (University of Arizona); Ed.S. (Pittsburg State University).

**Melissa Smith:** clinical instructor of nursing; B.S.N. (East Carolina University); M.S.N. (University of Tennessee-Memphis).

**Terry L. Thompson:** clinical instructor of nursing; B.S.N. (University of Missouri-Columbia); M.S.N. (University of Missouri-Kansas City).

**Peggy Ward-Smith:** assistant professor of nursing; B.S.N. (Rush University); M.S.N. (St. Xavier College); M.S. (Avila University); Ph.D. (University of Kansas).

**Alisia M. Williams:** clinical instructor of nursing; B.S.N. (Southern Illinois University); M.S.N. (University of Missouri-Kansas City).

**Thad Wilson:** associate dean, school of nursing, and associate professor of nursing; B.S.N. (Graceland College); M.S. (University of Utah); Ph.D. (University of Kansas).

**Jacquelyn S. Witt:** clinical associate professor of nursing; B.S.N. (Central Missouri State University); M.S.N., J.D. (University of Missouri-Kansas City).

**Christine M. Zimmerman:** clinical instructor of nursing; B.S.N. (Creighton University); M.S.N. (University of Missouri-Kansas City).

**School of Pharmacy**

**Mostafa Z. Badr:** associate professor of pharmacology; B.S., M.S. (Cairo University, Egypt); Ph.D. (University of Louisville).

**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).

**Cathryn A. Carroll:** assistant professor of pharmacy practice; B.S., M.B.A. (University of Missouri-Kansas City); M.S., Ph.D. (University of Kansas).

**Lester Chafetz:** professor emeritus of pharmaceutical science and director, Center for Pharmaceutical Technology; B.S. (University of Rhode Island); M.S., Ph.D. (University of Wisconsin).

**Patrick G. Clay:** assistant professor of pharmacy practice; B.S. (Northeast Louisiana University); Pharm.D. (University of Oklahoma).

**Mary L. Euler:** assistant dean, school of pharmacy, and clinical assistant professor of pharmacy practice; B.S. (University of Kansas); Pharm.D. (University of Missouri-Kansas City).

**Simon H. Friedman:** assistant professor of pharmaceutical science; B.S. (Massachusetts Institute of Technology); Ph.D. (University of California, San Francisco).

**Cory G. Garvin:** assistant professor of pharmacy practice; B.S., Pharm.D. (University of Iowa).

**Maqual Graham:** assistant professor of pharmacy practice; Pharm.D. (University of Missouri-Kansas City).

**William G. Gutheil:** associate professor of pharmaceutical science; B.S. (California Polytechnic State University); Ph.D. (University of Southern California).

**Orisa I. Igwe:** associate professor of pharmacology; B.S. (Northeast Louisiana University); M.S. (University of Kentucky); Ph.D. (University of Cincinnati).

**Thomas P. Johnston:** associate professor of pharmaceutical sciences; B.S., Ph.D. (University of Minnesota).

**Gregory L. Kearns:** Marion Merrell Dow/Missouri Endowed Chair in Pediatric Clinical Pharmacology; Pharm.D. (University of Cincinnati).

**Todd Krueger:** assistant professor of pharmacy practice; Pharm.D. (University of Missouri-Kansas City).

**Maureen E. Knell:** clinical assistant professor of pharmacy practice; Pharm.D. (University of Missouri-Kansas City).

**Robert C. Lanman:** professor emeritus of pharmacology, School of Pharmacy; B.S., Ph.D. (University of Minnesota).

**Yuen-Sum Vincent Lau:** professor of pharmacology and chair, Division of Pharmacology; B.S., M.S., Ph.D. (University of Hawaii).

**Chi H. Lee:** assistant professor of pharmaceutical science; B.S. (Seoul National University, South Korea); M.S. (University of Washington); Ph.D. (Rutgers University).

**Cameron C. Lindsey:** assistant professor of pharmacy practice; Pharm.D. (University of Missouri-Kansas City).

**Harold J. Manley:** assistant professor of pharmacy practice; B.S., Pharm.D. (Albany College of Pharmacy).

**Karen S. Mark:** assistant professor of pharmacology; B.S. (Winona State University); B.S., Ph.D. (University of Nebraska Medical Center).

**Patricia A. Marken:** professor of pharmacy practice; B.S. (Dalhousie University, Canada); Pharm.D. (Medical University of South Carolina).

**William D. Mason:** professor emeritus of pharmaceutical science, School of Pharmacy and School of Medicine; B.S., M.S., Ph.D. (Ohio State University).

**Cydney McQueen:** clinical assistant professor of pharmacy practice; Pharm.D. (University of Missouri-Kansas City).

**Srikumaran K. Melethil:** professor emeritus of pharmaceutical science; B.Pharm., M.Pharm. (Andhra University, India); Ph.D. (State University of New York at Buffalo).
Ashim K. Mitra; professor of pharmaceutical science and chair, Division of Pharmaceutical Science; B.S., M.S. (Jadavpur University, India); M.S., Ph.D. (University of Kansas).

Steven H. Neau; associate professor of pharmaceutical science; B.S., B.A. (Eastern Michigan University); M.S., Ph.D. (University of Michigan).

Karen Norris; clinical assistant professor of pharmacy practice; Pharm.D. (Medical College of Virginia at Virginia Commonwealth University).

Noel O. Nuessle; professor emeritus of pharmaceutical science; B.S. (St. Louis College of Pharmacy and Allied Sciences); M.S., Ph.D. (University of Florida).

D. Keith Perkins; clinical assistant professor of pharmacy practice; B.S. (University of Missouri-Kansas City); Pharm.D. (University of Utah).

Robert W. Piepho; dean, school of pharmacy, and professor of pharmacology; B.S. (University of Illinois); Ph.D. (Loyola University).

Jennifer A. Santee; clinical assistant professor of pharmacy practice; Pharm.D. (University of Iowa).

Deborah A. Scheuer; assistant professor of pharmacology; B.S. (University of Hawaii); Ph.D. (University of California, San Francisco).

Roger W. Sommi, Jr.; professor of pharmacy practice; B.S. (University of Wisconsin-Madison); Pharm.D. (University of Utah).

Steven Stoner; clinical associate professor of pharmacy practice; Pharm.D. (University of Nebraska).

Joyce Tombran-Tink; associate professor of pharmaceutical science; B.S. (Eastern Nazarene College); Ph.D. (University of Southern California).

Jianping Wang; assistant professor of pharmacology; M.D., M.S. (Second Military Medical University); Ph.D. (Louisiana State University of Health Sciences Center).

John Q. Wang; associate professor of pharmacology; M.D. (Medical College of Wuhan, China); M.Sc. (Tongi Medical University, China); Ph.D. (Shanghai Medical University, China).

David M. Youette; professor of pharmacology, School of Pharmacy and School of Medicine; B.S. (University of Missouri-Columbia); Ph.D. (University of Missouri-Kansas City).
Appendices

Addresses and Phone Numbers

The main telephone number of the University is (816) 235-1000. Operators are on duty Monday through Friday, 8 a.m. to 5 p.m., to direct calls. Application and admission questions should be directed to (816) 235-1111.

The official mailing address is:

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

All other addresses shown are for locator purposes only.

Academic Units

College of Arts and Sciences
Scofield Hall, 711 E. 51st Street, (816) 235-1136, college@umkc.edu, www.umkc.edu/college.

School of Biological Sciences
Biological Science Building, 5007 Rockhill Road, (816) 235-1388, sbs-grad@umkc.edu, www.umkc.edu/sbs.

Henry W. Bloch School of Business and Public Administration
5110 Cherry Street, (816) 235-2215, bloch@umkc.edu, www.umkc.edu/bloch.

School of Computing and Engineering
534 Flarsheim Hall, 5110 Rockhill Road, (816) 235-2399, sce@umkc.edu, www.umkc.edu/sce.

School of Dentistry
650 E. 25th Street, (816) 235-2100, dentistry@umkc.edu, www.umkc.edu/dentistry.

School of Education
615 E. 52nd Street, (816) 235-2234, education@umkc.edu, www.umkc.edu/education.

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

School of Law
500 E. 52nd Street, (816) 235-1644, law@umkc.edu, www.umkc.edu/law.

School of Medicine
2411 Holmes Street, (816) 235-1808, medicine@umkc.edu, www.umkc.edu/medicine.

Conservatory of Music
Performing Arts Center, 4949 Cherry Street, (816) 235-2900, conservatory@umkc.edu, www.umkc.edu/conservatory.

School of Nursing
2220 Holmes Street, (816) 235-1700, nurses@umkc.edu, www.umkc.edu/nursing.

School of Pharmacy
Katz Pharmacy Bldg., 5005 Rockhill Road, (816) 235-1609, pharmacy@umkc.edu, www.umkc.edu/chemistry.

Departments of the College of Arts and Sciences

American Studies
204G Haag Hall, 5120 Rockhill Road, (816) 235-1137, am-st@umkc.edu, http://www.umkc.edu/am-st.

Architecture, Urban Planning and Design
Epperson House, 5200 Cherry Street, (816) 235-1725, arch@umkc.edu, http://www.umkc.edu/arch.

Art and Art History
204 Fine Arts Building, 5015 Holmes Street, (816) 235-1501, art@umkc.edu, http://www.umkc.edu/art.

Chemistry
Spencer Chemistry Building, 5009 Rockhill Road, (816) 235-2273, Fax: (816) 235-5502, chemistry@umkc.edu, http://www.umkc.edu/chemistry.

Communication Studies
202 Haag Hall, 5120 Rockhill Road, (816) 235-1337, Fax: (816) 235-5539, com-s@umkc.edu, http://www.umkc.edu/com-s.

Economics
211 Haag Hall, 5120 Rockhill Road, (816) 235-1314, Fax: (816) 235-2834, economics@umkc.edu, http://www.umkc.edu/economics.

English Language and Literature
106 Cockefair Hall, 5121 Rockhill Road, (816) 235-1305 or (816) 235-1307, Fax: (816) 235-1308, english@umkc.edu, http://www.umkc.edu/english.

Foreign Languages and Literatures
216 Scofield Hall, 711 East 51st Street, (816) 235-1311, Fax: (816) 235-1312, frn-lg@umkc.edu, http://www.umkc.edu/frn-lg.

Geosciences
420 R.H. Flarsheim Hall, 5110 Rockhill Road, (816) 235-1334, Fax: (816) 235-5535, geosciences@umkc.edu, http://www.umkc.edu/geosciences.

History
203 Cockefair Hall, 5121 Rockhill Road, (816) 235-1631, Fax: (816) 235-5723, history@umkc.edu, http://www.umkc.edu/history.

Mathematics and Statistics
206 Haag Hall, 5120 Rockhill Road, (816) 235-1641, math@umkc.edu, http://www.umkc.edu/math.

Philosophy
222 Cockefair Hall, 5121 Rockhill Road, (816) 235-1331, Fax: (816) 235-2819, philosophy@umkc.edu, http://www.umkc.edu/philosophy.

Physics
257 R.H. Flarsheim Hall, 5110 Rockhill Road, (816) 235-1604, Fax: (816) 235-5221, physics@umkc.edu, http://www.umkc.edu/physics.

Political Science
213 Haag Hall, 5120 Rockhill Road, (816) 235-1326, Fax: (816) 235-5594, pol-sc@umkc.edu, http://www.umkc.edu/pol-sc.

Psychology
4825 Troost Avenue, Suite 215, (816) 235-1318, Fax: (816) 235-1062, psychology@umkc.edu, http://www.umkc.edu/psychology.

Religious Studies
204E Haag Hall, 5120 Rockhill Road, (816) 235-5704 or (816) 235-5854, Fax: (816) 235-5542, rel-st@umkc.edu, http://www.umkc.edu/rel-st.

School of Social Work

Sociology/Criminal Justice and Criminology
208 Haag Hall, 5120 Rockhill Road, (816) 235-1116, Fax: (816) 235-1117, sociology@umkc.edu, http://www.umkc.edu/sociology.

Theatre
408 Center for the Performing Arts, 4949 Cherry Street, (816) 235-2702, Fax: (816) 235-6562, theatre@umkc.edu, http://www.umkc.edu/theatre.
Departments and Offices

Academic Advising/Information, Arts and Sciences
Contact specific department as indicated within catalog.
Admissions, Office of, 120 Administrative Center, 5115 Oak Street, (816) 235-1111, admit@umkc.edu, www.umkc.edu/admit.
Admissions testing; Counseling, Health and Testing Center Room 206, 4825 Troost Building, (816) 235-1635, chtc@umkc.edu, www.umkc.edu/chtc/testing.
Applications for Assistantships
Contact specific department or school.
Athletics, Dept. of Intercollegiate
201 Swinney Recreation Center, 5030 Holmes Street, (816) 235-1036, athletics@umkc.edu, www.umkc.edu/athletics.
Automobile Registration, Parking Operations
221 Administrative Center, 5115 Oak Street (816) 235-2566, parking@umkc.edu, www.umkc.edu/parking.
Berkley Child and Family Development Center
1012 E. 52nd Street, (816) 235-2600.
Call Center
(816) 235-2000, callcenter@umkc.edu. Technicians are on duty Monday - Friday, 7 a.m. to 7 p.m., to provide computer support on campus.
Counseling, Health and Testing Center
Suite 206, 4825 Troost Building, (816) 235-1635, chtc@umkc.edu, www.umkc.edu/chtc.
Disabled Student Services, Room 23, lower level of U. Center 5000 Holmes Street, (816) 235-5696, disability@umkc.edu, www.umkc.edu/disability.
Fees (Cashier’s Office)
112 Administrative Center, 5115 Oak Street, (816) 235-1365, cashiers@umkc.edu, www.umkc.edu/cashiers.
Financial Aid and Scholarships Office
101 Administrative Center, 5115 Oak Street, (816) 235-1154, finaid@umkc.edu, www.umkc.edu/finaid.
Housing, Residential Life Office, Room 106 North Twin Oaks Apartments, 5000 Oak Street, (816) 235-8956, housing@umkc.edu, www.umkc.edu/housing.
Housing, Residence Hall Office
5030 Cherry Street, (816) 235-2800, housing@umkc.edu, www.umkc.edu/housing.
Information Center, Campus
Lobby, University Center, 50th and Rockhill Road, (816) 235-5555.
International Student Affairs, Office of
5235 Rockhill Road, (816) 235-1113, isao@umkc.edu, www.umkc.edu/isao.
Missouri Repertory Theatre
Central Ticket Office, Performing Arts Center, 4949 Cherry Street, (816) 235-2700, www.umkc.edu/mrt.
Minority Student Affairs
5245 Rockhill Road, (816) 235-1109, msa@umkc.edu, www.umkc.edu/msa.
Police, UMKC
Registration, UMKC Registration Center
116 Administrative Center, 5115 Oak Street, (816) 235-1125, registrar@umkc.edu, www.umkc.edu/registrar.
Student Health and Wellness Center
Room 115, 4825 Troost Building, (816) 235-6133, studenthealth@umkc.edu, www.umkc.edu/studenthealth.

Student Life, Office of
G6 University Center, 50th and Rockhill Road, (816) 235-1407, stulife@umkc.edu, www.umkc.edu/stulife.
Transfer Credit Policies, Admissions/Enrollment Services
120 Administrative Center, 5115 Oak Street, (816) 235-1111, admit@umkc.edu, www.umkc.edu/admit.
Transcripts and Records, UMKC Records Office
115 Administrative Center, 5115 Oak Street, (816) 235-1121, registrar@umkc.edu, www.umkc.edu/registrar/gn.html.
University News (UMKC Student Newspaper)
Veterans Services, Veteran Affairs
115 Administrative Center, 5115 Oak Street, (816) 235-1112.
Welcome Center, 120 Administrative Center, 5115 Oak Street, (816) 235-8652; (816) 235-UMKC, welcome@umkc.edu, www.umkc.edu/welcome.
Women’s Center
105 Haag Hall, 5120 Rockhill Road, (816) 235-1638, womens-center@umkc.edu, www.umkc.edu/womenc.
Policies and Procedures

Student Conduct

A. JURISDICTION OF THE UNIVERSITY OF MISSOURI

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.

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 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.

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.

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.

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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 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.

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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.

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   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

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

This policy is also available at http://www.umsystem.edu/uminfo/rules/programs/200010.htm.

A student enrolling in the University assumes an obligation to behave in a manner compatible with the University’s function as an educational institution.

This policy is also available at http://www.umsystem.edu/uminfo/rules/programs/200020.htm.

A. JURISDICTION OF THE UNIVERSITY OF MISSOURI

A person having once been admitted to the University assumes an obligation to behave in a manner compatible with the University’s function as an educational institution.

A student enrolling in the University assumes an obligation to behave in a manner compatible with the University’s function as an educational institution.

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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

This policy is also available at http://www.umsystem.edu/uminfo/rules/programs/200020.htm.
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 student is eligible to return. Conditions for readmission may be specified.
   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 accept 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 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 are 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) shall have the rights of appeal as set forth in Section 200.020 E.6 of the General Counsel. Students subject to student honor systems shall have at a minimum the same standards set forth in Section 200.020 E.6 of the General Counsel. Students subject to honor systems shall be approved by the Chancellor and the Board of Curators, have been reduced to writing and have been approved by the Board of Curators, 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 Board of Curators, and have been approved by the Chancellor and the Board of Curators and notice thereof has been furnished to students subject thereto.
b. The Chancellor or Designee may grant or refuse the right of appeal. 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.

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) of 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;
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 offenses:
   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 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. Mn. 9-14-00.)

This policy is also available at http://www.umsystem.edu/uminfo/rules/facilities/110005.htm.

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. 2-28-75; Amended 3-18-77; Bd. Min. 6-10-59, p. 15,059; Bd. Min. 5-24-01.)

This policy is also available at http://www.umsystem.edu/uminfo/rules/information/180020.htm.

A. PURPOSE. The purpose of this regulation is to set forth the guidelines governing the protection of the privacy of student records and to implement The Family Educational Rights and Privacy Act of 1974 (Buckley Amendment; Pub. L. 93-380, as amended). These regulations apply to all students who are or have attended the University of Missouri.

B. DEFINITIONS.

2. “Attendance” at the University includes, but is not limited to:
   a. The period of time during which a student attends the University. Examples of dates of attendance include an academic year, a spring semester, or a first quarter.
   b. The term does not include specific daily records of a student’s attendance at the University.
3. “Directory Information/Public Information” includes a student’s name, address, e-mail address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, the most recent previous educational agency or institution attended by the student, student level, and full- or part-time status.
4. “Disclosure” means to permit access to or the release, transfer, or other communication of personally identifiable information contained in education records to any party, by any means, including oral, written, or electronic means.
5. “Education Records”
   a. The term means those records that are:
      (1) Directly related to a student; and
      (2) Maintained by the University or by a party acting for the University.
   b. The term does not include:
      (1) Records that are kept in the sole possession of the maker of the record, and are not accessible or revealed to any other person except a temporary substitute for the maker of the record;
      (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;
C. NOTIFICATION OF ACCESS RIGHTS BY THE UNIVERSITY.

1. The University shall annually notify students currently in attendance of their rights under the Act.
2. Notice must be included in each campus’ information manual, or other publication, and must inform students that they have the right to:
   a. Inspect and review the student’s education records;
   b. Seek amendment of the student’s education records that the student believes to be inaccurate, misleading, or otherwise in violation of the student’s privacy rights;
   c. Consent to disclosures of personally identifiable information contained in the student’s education records, except to the extent that the Act and Section 180.020 M authorize disclosure without consent; and
   d. File with the Department of Education’s Family Policy Compliance Office a complaint under Sections 99.63 and 99.64 of the Act concerning alleged failures by the University to comply with the requirements of the Act.
3. The notice must include all of the following:
   a. The procedure for exercising the right to inspect and review education records;
   b. The procedure for requesting amendment of records under Section 180.020 I; and
   c. A specification of criteria for determining who constitutes a school official and what constitutes a legitimate educational interest, as listed in Section 180.020 M. I.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.

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 honorific 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 the University’s 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.
   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.r, 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 protection 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; and
   b. A student’s right to refuse to let the University designate any or all of those types of information about the student as directory information; and
   c. The period of time within which a student has to notify the University in writing that he or she does not want any or all of those types of information about the student designated as directory information.

2. The University may disclose directory information about former students without meeting the conditions of this section.

**S. DEFINITIONS APPLYING TO THE NONCONSENSUAL DISCLOSURE OF RECORDS IN CONNECTION WITH DISCIPLINARY PROCEEDINGS CONCERNING CRIMES OF VIOLENCE OR NON-FORCIBLE SEX OFFENSES.** As used in this part:

1. “Alleged perpetrator of a crime of violence” is a student who is alleged to have committed acts that would, if proven, constitute any of the following offenses or attempts to commit the following offenses that are defined in Title 18, “Crimes and Criminal Procedure,” of the United States Code:
   a. Arson;
   b. Assault offenses;
   c. Burglary;
   d. Criminal homicide - manslaughter by negligence;
   e. Criminal homicide - murder and nonnegligent manslaughter;
   f. Destruction/damage/vandalism of property;
   g. Kidnapping/abduction;
   h. Robbery; or
   i. Forcible sex offenses.

2. “Alleged perpetrator of non-forcible sex offense” means a student who is alleged to have committed acts that, if proven, would constitute statutory rape or incest. These offenses are defined in Title 18, “Crimes and Criminal Procedure,” of the United States Code.

3. “Final results” means a decision or determination, made by an honor court or council, committee, commission, or other entity authorized to resolve disciplinary matters within the University. The disclosure of final results must include only the name of the student, the violation committed, and any sanction imposed by the University against the student.

4. “Sanction imposed” means a description of the disciplinary action taken by the University, the date of its imposition, and its duration.

5. “Violation committed” means the University rules or code sections that were violated and any essential finding supporting the University’s conclusion that the violation was committed.

**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.

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.

**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 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.

Equal Opportunity Procedures

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 its internal 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 regardless of sex and religious 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/jobs 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

(Eastern 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/uminfo/rules/personnel/330060.htm.

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 accordance with providing a positive, discrimination-free environment, that sexual harassment in the workplace 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:

1. At the close of the investigation, whether or not disciplinary procedures will be initiated; and
2. At the end of any disciplinary procedures, of the discipline imposed, if any.

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 and are as follows:

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 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 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

Institution 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 of Curators and deal with faculty/staff responsibilities.

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.

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)

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 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; or
   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 of 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
Policies and Procedures

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 shall 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 cases, 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.
   g. The committee may call new witnesses whose testimony it deems relevant or helpful.
   h. In order to promote the truthful, unfettered exchange of information and ideas, all testimony pertaining to the grievance hearing shall be held in confidence.
   i. 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...

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:
   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

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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

UM System Policy on Maintaining a 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/uminfo/rules/personnel/330080.htm.

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.
UM System Information

Campus locations: Kansas City, Columbia, Rolla, St. Louis

Total enrollment (fall 2002): 60,903; 74.1 percent undergraduates, 25.9 percent graduate and professional students

Web site: http://www.umsystem.edu

Degrees granted (2001-02): 11,645

Teaching and research staff: 10,610; 44.6 percent full-time, 55.4 percent part-time

Administrative, service and support staff: 15,636; 74.5 percent full-time, 25.5 percent part-time

Libraries: Total holdings of 5,890,174 volumes, 10,460,406 microforms, 28,158 periodicals

Student financial aid: $400,833,575 in grants, loans, work programs, scholarships, fellowships and other government aid awarded to 45,300 students in fiscal year 2002

Land holdings: 19,387 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
umrolla@umr.edu
http://admissions.umr.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/admission

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 Outreach and Extension

http://outreach.missouri.edu

University Outreach and Extension is the statewide educational outreach arm of the UM System, and focuses the resources of the University on high-priority needs at the local level. These priorities are enhancing the economic viability of Missouri's farms, farms and communities; and creating and sustaining healthy environments.

Programs are delivered in cooperation with University Outreach and Extension councils in every Missouri county. University faculty headquartered in county extension centers rely on the knowledge and resources of faculty on all four UM campuses, plus Lincoln University, to create educational programs to meet local needs.

University Outreach and Extension faculty use the Internet, video and audio conferencing; CDs, group meetings, short courses and workshops, independent studies, and one-to-one consultation to bring educational programs to the citizens.

University Outreach and Extension links University faculty and staff with local citizens through the statewide TeleCenter Network. The 10 network sites use interactive video and other distance-learning technologies to deliver credit and non-credit education to students at times and places convenient for them.
Finding Your Way Around UMKC
Please see Maps and Directions at http://www.umkc.edu/maps and http://www.umkc.edu/bin/keyword.cgi?goType=keyword&goText=directions.