Notice to All Users of the UMKC 2008-2009 Undergraduate and Graduate Catalogs: UMKC is changing the way it produces and makes available its comprehensive catalog. The 2008-2009 Catalogs are the first to be produced under the new method.

A few things have not changed:
· Catalogs are no longer produced in print.
· Catalogs are available online at www.umkc.edu/catalog <http://www.umkc.edu/catalog>.
· Undergraduate and Graduate Catalogs are available in two versions, a web (HTML format) version, and a printable document (PDF format) version.

The first and most important thing that has changed is that the two versions (PDF and HTML) have different purposes:
· The PDF versions are the official sources of academic program requirements that govern progress towards completion of undergraduate and graduate degree, credential, and certificate programs. The PDF versions are produced annually and the information in each annual publication does not change after publication. This PDF version is not the best source of any information except 2008-2009 academic program requirements. See the HTML version for the most up to date departmental, unit, and university-wide information.
· The HTML versions of the Undergraduate and Graduate Catalogs are the official sources of all other departmental, unit, and university-wide information related to undergraduate and graduate academic programs, including the most recent pending changes to program requirements that have been approved but are not yet effective. The HTML versions will be continually updated and are therefore the best source of current information such as university and program accreditation information, admissions policies and procedures, general academic regulations, fees, academic and student services and resource information, and faculty and staff contact information.
Introduction

INTRODUCTION

• General Information
• UMKC Online Catalog
GENERAL INFORMATION

The 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 only 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 regional accrediting body for the University of Missouri - Kansas City.

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 2007-08 Undergraduate Catalog is available in an electronic version. To access the online version, you'll need browsing software, such as Foxfire, 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/admissions/.

STATEMENT OF HUMAN RIGHTS

The Board of Curators and UMKC are committed to the policy of equal opportunity, regardless of race, color, religion, sex, sexual orientation, national origin, age, disability and status as a Vietnam era veteran. The Division of Diversity, Access & Equity is responsible for all relevant programs.

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

STUDENT'S RIGHT-TO-KNOW

In accordance with Public Law 101-542, UMKC reports 71 percent of its first-time freshmen return the second year.

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

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

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

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

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

or by writing to

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

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

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

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

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

University of Missouri - Kansas City

UNIVERSITY OF MISSOURI-KANSAS CITY'S MISSION
UMKC, one of four of the University of Missouri campuses, is a doctoral research-intensive public university offering traditional and interdisciplinary programs serving more than 14,000 students. UMKC’s unique profile includes the College of Arts and Sciences and Schools of Education, Nursing, Business and Public Administration, Medicine, Law, Computing and Engineering, Biological Sciences, Dentistry, Pharmacy and the Conservatory of Music. In full alignment with its mission, UMKC is a strong partner with the Kansas City community and is an essential element in the region’s economic and cultural development.

Mission
- 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.

UMKC GENERAL ADMINISTRATIVE OFFICERS
Guy H. Bailey, Ph.D.
Chancellor
Gail Hackett, Ph.D.
Provost and Vice Chancellor for Academic Affairs
Karen L. Dace, Ph.D.
Deputy Chancellor for Diversity, Access and Equity
Richard L. Anderson
Interim Vice Chancellor for Administrative Services
Mel C. Tyler
Vice Chancellor for Student Affairs and Enrollment Management
John Amato
Vice Chancellor for University Advancement

UMKC ACADEMIC DEANS AND DIRECTORS
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 family. The ivy-covered stone mansion, 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 Spaight, 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-Wesern 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 part of the University of Missouri System, joining three other campuses 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 UMKC was more than 13,800 students.

In addition to the Volker campus, UMKC operates the Hospital Hill campus, located in midtown Kansas City, Mo. This campus is adjacent to Truman Medical Center, UMKC’s primary public teaching hospital, and is home to the UMKC School of Medicine, School of Dentistry, the School of Nursing, and the Institute of Human Development.

From 1997 to 1999, UMKC 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 Independent School District.

Many offices for UMKC’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 UMKC friend and neighbor. His estate gift of $8.7 million was the largest ever by an individual.

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.

In March 2005, construction began on a Health Sciences building on the Hospital Hill campus, which will be the future home of the schools of pharmacy and nursing.

One element of UMKC’s strategic planning is to increase opportunities for students living on campus, particularly undergraduates. With that goal in mind, UMKC purchased the Twin Oaks apartments, a 600 unit, 11-story complex located on the west side of Oak Street, between 50th and 51st streets. Oak Street Hall opened on the Volker Campus in 2004, 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 UMKC Northland, seeking to bring graduate degree programs to the northland areas of Kansas City. UMKC Northland, housed in the Platte County Resource Center, offers graduate degree programs on evenings and weekends. Initial offerings include M.A. and Ed.D. degrees from the School of Education. In partnership with area organizations, UMKC also will offer continuing professional education and professional development programs at the Northland site.

The Colors
The colors of the University of Kansas City, now the University of Missouri-Kansas City, were determined in March 1934 by a student council decree, which cited the school colors as “old gold and royal blue.”

University of Missouri System
The University of Missouri is a single university with four campuses located at Columbia, Rolla and St. Louis. The University is governed by the Board of Curators, whose members are appointed by the governor of Missouri and confirmed by the Missouri Senate. The University president directs and coordinates the programs of the four campuses, with staff assistance in finance, business management, research, extension, development, public information and other UM system services.

The activities of each campus are supervised by a chancellor, who directs campus affairs within policies established by the Board of Curators and the president.

The University of Missouri was established at Columbia in 1839, only 18 years after Missouri became a state. Recognized as the first state university west of the Mississippi River, it was designated a land-grant university in 1870. Since then, the University has extended its educational benefits to all sections of Missouri, in addition to its traditionally assigned tasks of teaching and research within the campus settings.
The University remained a single-campus institution until 1870, when the University of Missouri School of Mines and Metallurgy was established at Rolla. Campuses at St. Louis and Kansas City were added to the University in 1963.

University of Missouri System Board of Curators

Marion H. Cairns, Webster Groves
John M. Carnahan III, Springfield
Warren K. Ernman, Kansas City
Buford M. "Bo" Fraser, Columbia
Judith G. Haggard, Kennett
Doug Russell, Lebanon
Cheryl D. S. Walker, St. Louis
Don Walsworth, Marceline
David G. Wasinger, St. Louis

Student Representative to the Board

Maria Kerford, University of Missouri-Saint Louis

Officers of the Board

Don Walsworth, Chair
Cheryl D. S. Walker, Vice Chair
Marvin E. "Bunky" Wright, General Counsel
Kathleen M. Miller, Secretary

University of Missouri Mission Statement

The University of Missouri serves the people of Missouri by providing instructional, research and extension programs. The University offers undergraduate, graduate and professional programs which respond to student needs and serve the broader economic, social and cultural needs of the state. The University offers doctoral degrees and is committed to the creation of new knowledge through research. Through its extension programs, the University extends its knowledge base throughout the state.

The fundamental purpose of the University is to provide enlightened and able graduates who have the potential to provide leadership in the economic, social and cultural development of the state and nation. The fulfillment of this 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.

Accreditation and Degree Programs

ACCREDITATION AND DEGREE PROGRAMS

- Program Accreditation
- Degree Programs and Emphasis Areas

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.B.A.)
- 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 (B.S.)
- Cellular and Molecular Basis of Health and Disease (B.S.)
- BUSINESS ADMINISTRATION (B.B.A.)
- Enterprise Management (B.B.A.)
- Entrepreneurship (B.B.A.)
- Finance (B.B.A)
- Marketing (B.B.A)
- CHEMISTRY (B.S., B.S.E.)
- CIVIL ENGINEERING (B.S.C.E.)
- COMMUNICATION STUDIES (B.A.)
- Interpersonal and Public Communication (B.A.)
- Journalism and Mass Communication (B.A.)
Film and Media Arts (B.A.)
COMPUTER SCIENCE (B.A., B.S.)
Bioinformatics (B.S.)
CRIMINAL JUSTICE AND CRIMINOLOGY (B.A.)
DANCE (B.F.A.)
DENTAL HYGIENE (B.S.D.H.)
EARLY CHILDHOOD EDUCATION (B.A.)
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.)
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.A.)
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.)
Music Therapy (B.M.E.)
MUSIC THEORY (B.M.)
NURSING (B.S.N., RN to B.S.N.)
PERFORMANCE (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.)
Natural Science (B.A.)
Social Science (B.A.)
SOCIOLOGY (B.A.)
SPANISH (B.A.)
STUDIO ART (B.A.)
Graphic Design/Photography (B.A.)
THEATRE (B.A.)
URBAN PLANNING AND DESIGN (B.A.)
URBAN STUDIES (B.A.)

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

American Assembly of Collegiate Schools of Business (1969)
American Association of Colleges of Pharmacy (1945)
American Association of University Women (1959)
American Association of Colleges for Teacher Education (1960)
American Chemical Society (1957)
American Council on Education (1945)
American Council on Pharmaceutical Education (1945)
American Dental Education Association
American Library Association
American Psychological Association
Association of American Colleges and Universities (AAC&U)
Association of American Law Schools (1938)
Association for Continuing Higher Education (formerly Association of University Evening 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)
Commission on Collegiate Nursing Education (2000)
Council on Graduate Schools (1967)
Fulbright Association
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
SPECIAL ADMISSION CASES

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

Dual High School-University Enrollment
Superior high school students may be admitted in a special student category for the purpose of taking one or two University courses concurrently with their final year or two of high school. Students must submit visiting High School Student applications that include high school recommendations. Students are admitted on the basis of academic standards that exceed those required for admission from high school. Admissions are limited and governed by space available in and prerequisites for the desired course or courses.

Trial Admission
High school graduates who do not meet the standards for regular admission from high school may, in some cases, be admitted to the University on a conditional trial basis. The student must earn a 2.0 grade-point average to be eligible to enroll the following semester. Students who do not meet the core requirements for admission, in some cases, may also be admitted conditionally once they provide evidence of enrollment in the coursework needed. Students can choose from several options during their senior year in high school or the summer before their freshman year to gain regular admission.

UMKC encourages students to choose one of the following options to fulfill the core requirements:
- Take coursework in the required area at UMKC during the summer prior to the fall semester of their freshman year.
- Enroll in college-level coursework in the required area at an accredited community college or four-year institution.
- Complete the required coursework through correspondence or independent study.

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

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

Special Admission from Accredited High Schools
Graduates of accredited high schools that do not provide class rank are required to have a minimum ACT composite score of 24 and completion of the 17 units of college-preparatory curriculum. Students not meeting this criteria may be considered for a trial admission.
Home Schooled
Graduates of home schooled programs are required to have a minimum ACT composite score of 24 and completion of the 17 units of college-preparatory curriculum. Students not meeting this criteria may be considered for a trial admission.

APPLICATION FOR ADMISSION
Qualified students seeking admission must submit:

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

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

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

Note: Certain academic programs require additional supporting documentation.

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

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

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

1. Completed UMKC application form at http://www.umkc.edu/admissions/decision.asp with nonrefundable $35 (domestic) or $50 (international) application fee.
2. Official transcripts from all colleges and universities attended.

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

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

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

C. Transfer Within the University of Missouri System
For students transferring between campuses of the University of Missouri System, the following University of Missouri policy is applicable: "Any course that leads to an undergraduate degree on any campus of the University of Missouri shall be accepted in transfer toward the same degree on each campus of the University offering said degree."

For each student of the University, there will be calculated two cumulative grade-point averages. One is the campus GPA that will be calculated by procedures defined at the campus. The second is the University of Missouri GPA, which will include all grades and credits attempted at any University of Missouri campus, including all grades, credits and points for any courses that are repeated.

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

D. Transfer of College Credit from Other Colleges and Universities
Refer to the General Undergraduate Academic Regulations and Information section of the catalog. Students who have completed an associate of arts (A.A.) degree from a Missouri college oriented toward a baccalaureate degree and have a cumulative GPA of 2.0 (on a 4.0 scale) are admissible to the University, but not necessarily to specific programs. For the additional admission requirements of specific degree programs, refer to the appropriate sections of the catalog.

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

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

METRO RATE
The Metro Rate is a program benefiting undergraduate, non-professional students who are legal residents of Johnson, Leavenworth, Miami or Wyandotte counties in Kansas. These students will be assessed educational fees equivalent to those of a Missouri resident (the "in-state" rate). Questions about the Metro Rate may be directed to the Office of Admissions.

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

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

Academic Amnesty Policy and Procedures
See the Policy section in the Appendix of this catalog.

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

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

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

Students may obtain a Visiting/Community Student Application form at http://www.umkc.edu/admissions/decision.asp or from the Office of Admissions. Not all academic programs are open to...
Policies on Admission Credentials

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

Timing of Applications

The Office of Admissions will begin accepting admission applications Sept. 1 of the year preceding the Fall Semester for which the student is applying. High school seniors will be evaluated on the basis of six or more completed semesters of high school work.

Dates of Application

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

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

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

Six-Year Med Program

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

PharmD. Program

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

Policies on Regular Admission - Medicine

General

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

Admissions Test - Medical Program

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

Deadline for Application - Medical Program

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

Other Requirements - Medical Program

An advance deposit of $100 is required on acceptance.

Policies on Admission of International Students

General Admission Policies

International students are expected to meet the requirements for admission from secondary schools or from other colleges and universities as outlined below.

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

International transfer students from other colleges or universities of recognized standing must have above-average grades in all previous college study. Only credit appropriate to the curricula at this institution will be accepted toward a degree. Students transferring from other institutions in the United States must submit the International Transfer Form or other evidence of release from the previous program by their former foreign-student advisers and the equivalent of one semester’s work at those institutions before admission will be granted. An official statement of finances indicating sufficient funds available to meet all educational and other fees and living expenses for the duration of the studies is required.

Policies on admission from other colleges and universities as stated elsewhere will be applied. A $50 application fee for new/renewal applicants is required. The application fees are non-refundable.

Priority Deadline for Application for Admission - International

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

- Fall Semester: April 1
- Spring Semester: Oct. 1
- Summer Session: April 1

*For application for assistantships, scholarships, etc., the priority deadline is Feb. 1. Several academic units have different deadlines as outlined in the current admission application materials.

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

Required Academic Records - International

Students must provide complete and official certificates of all degrees, diplomas, mark sheets, grade reports and examination records. All materials must be in English. Secondary-school records must be submitted as well as college/university transcripts or credentials. All previous undergraduate work must include syllabi of courses taken with literal translations.

English Proficiency Requirement

International students are required to establish proof of adequate English proficiency as part of the admission process. Applicants from countries in which English is not the native language (or if it is one of the official languages but is not necessarily the first language of the majority of the population) are required to present satisfactory Test of English as Foreign Language (TOEFL) scores to satisfy this requirement. The minimum score is 500/173 CBT (Computer Based Test). Exceptions to this policy:

1. Non-native speakers from post-secondary institutions in English-speaking countries [e.g., the United States, Antigua, Australia, Bahamas, Barbados, Barbuda, Belize, Canada, Dominica, Fiji, Gambia, Ghana, Guyana, Ireland, Jamaica, Liberia, Maritius, New Zealand, Papua New Guinea, Sierra Leone, Solomon Islands, South Africa, St. Christopher (St. Kitts), St. Lucia, St. Vincent, Tobago, Trinidad, Uganda, United Kingdom (England, Scotland, Wales, and Northern Ireland), Zambia and Zimbabwe, provided they have spent a minimum of two years in successful full-time study, and English was the medium of instruction.

2. Permanent residents who have resided in the United States for two or more years.

3. In lieu of TOEFL, UMKC accepts the placement recommendations of the ELS Language Centers.
Other Admission Policies - International

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

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

Applicants must request such an extended offer and for a specific term by contacting the International Student Affairs Office. This request should be made in writing well in advance of the term desired. Individual financial support documentation must be renewed annually.

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

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

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

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

Registration with International Student Adviser
Admitted international students must first report to the Office of the International Student Affairs prior to their first registration at UMKC. Once admitted, international students must show proper and regular progress toward their degrees.

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

English Proficiency Evaluation
All international students subject to the TOEFL requirement are required to be evaluated (unless they have scored 600/CBT 250 or higher) by the Applied Language Institute staff at UMKC regarding the level of their English proficiency. If any weakness in that level of proficiency is revealed, appropriate coursework will be required to assure that the student's success is not jeopardized.

APPLICATION FORMS 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>ACT Composite</th>
<th>SAT V &amp; M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Score</td>
<td>Standard Score</td>
</tr>
<tr>
<td>94 and above</td>
<td>17</td>
</tr>
<tr>
<td>84-89</td>
<td>80-83</td>
</tr>
<tr>
<td>78-85</td>
<td>84-88</td>
</tr>
<tr>
<td>70-77</td>
<td>90-92</td>
</tr>
<tr>
<td>62-68</td>
<td>93-96</td>
</tr>
<tr>
<td>54-61</td>
<td>97-100</td>
</tr>
<tr>
<td>48-53</td>
<td>101-104</td>
</tr>
<tr>
<td>47 and below</td>
<td>105-109</td>
</tr>
</tbody>
</table>

Admitted students are expected to have followed a college-preparatory curriculum that includes at least 17 units of credit (with each unit equaling one year in class), as follows:

- Four units of English, one of which may be in speech or debate (two units emphasizing composition or writing skills are required).
- Four units of mathematics (Algebra 1 or higher). This requirement may be satisfied by the completion of courses in middle school, junior high or senior high.
- Three units of science (not including General Science). The three units of science must include a laboratory course and must include units from at least two of the following areas: physical science, biology, physics, chemistry and earth sciences. This requirement may be satisfied by the completion of courses in middle school, junior high or senior high.
- Three units of social studies.
- One unit of fine arts, to be taken in visual arts, music (e.g., band, orchestra, music appreciation, music theory), dance or theater.
- Two units of a single foreign language or American sign language. This requirement may be satisfied by completion of courses in middle school, junior high or senior high.

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

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

The University seeks a heterogeneous body reflecting diversity of race, ethnicity, age, geography (national and international) and physical ability. Factors given prime consideration for admission under graduate study are an applicant’s previous academic success and the quality of the record submitted. Applicants who do not meet the criteria set forth above may be considered by applying to the director of admissions. Additional factors include:

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

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

**APPLICATION FORMS**

**Online Application Forms on the Web**

Online application forms for
- Undergraduate Students
- Transfer Students
- Graduate Students (Masters, D.M.A. and Counseling Psychology Ph.D.)
- International Students
- Visiting Students
- MD only
can be accessed by clicking on "Apply Now" and creating an account at [http://www.umkc.edu/admissions](http://www.umkc.edu/admissions).

Online application forms for
- Interdisciplinary Ph.D. Students
can be accessed by clicking on "Apply Now" and creating an account at [http://spg.umkc.edu/apply/index.asp](http://spg.umkc.edu/apply/index.asp).

**Application Forms and Other Information on the Web**

Printable application forms for
- Undergraduate Students
- Transfer Students
- Graduate Students (Masters, D.M.A. and Counseling Psychology Ph.D.)
- International Students
- Visiting Students
can be found at [http://onestop.umkc.edu/forms.cfm](http://onestop.umkc.edu/forms.cfm).

Printable application forms for
- Interdisciplinary Ph.D. Students
can be found at [http://spg.umkc.edu/forms/index.asp](http://spg.umkc.edu/forms/index.asp).

Transfer course equivalency tables can be found at [http://www.umkc.edu/registrar](http://www.umkc.edu/registrar) and click on "Course Equivalency".

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

**Application Forms**

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

**Academic Regulations and Information**

**ACADEMIC REGULATIONS AND INFORMATION**

Office of the Registrar
Administrative Center, Room 115
5115 Oak Street
(816) 235-1125
Fax: (816) 235-5513
registrar@umkc.edu
[http://www.umkc.edu/registrar](http://www.umkc.edu/registrar)
[http://pathway.umkc.edu](http://pathway.umkc.edu)

Mailing Address
University of Missouri-Kansas City
Office of the Registrar
AC 115
5100 Rockhill Road
Kansas City, MO 64110-2499

Registrar:
Douglas E. Swink
Associate Registrar:
Karen E. Schlabach
Assistant Registrars:
Amy Cole
Nicole Woolsey

- Registration and Records
- Academic Calendar/Semester Hours
- Classification of Students/Student Levels
- Course Numbering
- Transfer and External Sources of Credit
  - Transferring Within the University of Missouri System
  - Transferring From a Community or Junior College
  - Credit By Examination
  - Correspondence and Extension Credit
  - Credit for Military Training
  - Missouri Higher Education Articulation Agreement
- Registration (Adds, Drops, Withdrawals)
  - Concurrent Enrollment
  - Adds
  - Withdrawals
  - Total Withdrawals
  - Termination of Enrollment for Financial Delinquency
- Academic Loads, Full- and Part-Time Status
- Grading Options and Auditing Courses
  - Grading
  - Grade-Point Average
  - Incomplete Grades
  - Repeated Courses
Transfer and External Sources of Credit

TRANSFER AND EXTERNAL SOURCES OF CREDIT

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

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

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

- All undergraduate college coursework attempted at accredited institutions will be recorded on the UMKC transcript of students seeking an undergraduate degree, regardless of whether or not it is applicable to a UMKC degree. Credit accepted from another institution may or may not be applicable to specific degree programs. The University reserves the right to make the decision regarding applicability.
- Courses that are remedial, preparatory or non-college-level will not be added to the total hours or used to satisfy degree requirements. The Registrar’s Office will refer to the transcript key or catalog of the sending institution in making a determination as to the level or purpose of the course in question.
- Transferred courses will be considered upper-division (junior-senior level) and count toward the total number of upper-division hours required if they are earned at a four-year institution and designated by that institution's course numbering system as upper division courses.
- A transferred course will retain the original number of credit hours for which it was taken at the previous institution, even if the equivalent UMKC course is worth a different number of hours.
- Courses transferred from institutions which award quarter hours will be converted into semester hours at the rate of 1 quarter hour = 2/3 semester hour.
- In general, courses with a grade of D or higher will receive full credit in transfer. For some degree programs, a course with a grade of D may not be used to satisfy specific requirements. A transfer student would be required to repeat a specified course on the same basis as a “native” UMKC student who earned a D in the equivalent course.
- Courses 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...
**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's 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.)
- Institutional 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 arranges to take a departmentally administered examination. The department involved must be willing to offer a test that measures the same level of proficiency as is required to earn credit for enrollment in the course. Frequently this is the final exam for the course. Before taking a departmental examination, students must register in the Registration and Records office and obtain an Advanced Placement (Credit by Examination) form. The charge for attempting credit by departmental examination 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 and 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.
   - Writing and Critical Analysis: Students must satisfactorily complete English 110 and 225. In addition, students must pass the Written English Proficiency Test (WEPT) or satisfactorily complete English 295. A student earning a score of 30 or better on the ACT English subtest or 690 or better on the SAT Verbal, may be exempt from the English 110 requirement.

2. Higher Order Thinking, Managing Information and Valuing (6 credit hours)
   - To develop students' ability to distinguish among opinions, facts, and inferences. Students must successfully complete 6 hours from at least two different fields, chosen from the following list:
     - Philosophy 210 or 222
     - History 201, 202, 203 or 208
     - Anthropology 103
     - Sociology 103
     - Communication 100 or above
     - Mathematics 165 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.
     - Constitution course chosen from: History 101 or 102 or 105B or Political Science 210
     - 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.
     - One 3 credit hour course chosen from English, Communication Studies, Foreign Language or Philosophy
     - 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.
   Mathematics 110 or higher (including Mathematics 110)

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

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

Registration

REGISTRATION (ADDS, DROPS, WITHDRAWALS)
Eligible students may register during the registration period that is announced in the registration guide and via UMKC e-mail. Students who are not registered will not receive academic credit and cannot attend classes. All registration and changes in registration must be processed by the UMKC Registrar’s Office either in person or using an approved electronic format such as the computer registration system.

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-advising must have the approval of the academic unit. (See the appropriate 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 spring semesters). Students who are not authorized to self-advising must have the approval of the academic unit. (See the registration guide 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) at the discretion of the faculty member. A WF is calculated in the grade-point average the same as a grade of F.

Official withdrawals can be done by mail when a student is unable to appear in person or if the Registration Office is closed or if the Pathway system is unavailable and the student wishes to receive a certain refund. The postmark on the envelope is used as the refund date. Actions that are not considered official notification of withdrawal are:

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

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

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

Academic Loads, Full- and Part-Time Status

ACADEMIC LOADS, FULL- AND PART-TIME STATUS

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

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

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

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

Grading Options and Auditing Courses
**GRADING OPTIONS AND AUDITING COURSES**

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

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

**Change from Audit to Credit**
Students may change status in a course from audit to credit during the first week of the term provided they have approval of the faculty and academic unit. This change must be initiated in the advising office of the appropriate academic unit and must be completed in the UMKC Registration 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 Spring semester, or prior to the end of the second week of any summer session. This change must be initiated in the advising office and must be completed in the UMKC Registration 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>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>3.3</td>
</tr>
<tr>
<td>A+</td>
<td>Work of distinction</td>
<td>3.0</td>
</tr>
<tr>
<td>B</td>
<td>Average work</td>
<td>2.0</td>
</tr>
<tr>
<td>B-</td>
<td></td>
<td>1.7</td>
</tr>
<tr>
<td>B+</td>
<td></td>
<td>1.3</td>
</tr>
<tr>
<td>C</td>
<td>D Passing, but unsatisfactory</td>
<td>1.0</td>
</tr>
<tr>
<td>C-</td>
<td>Failure without credit</td>
<td>0.7</td>
</tr>
<tr>
<td>D</td>
<td>NR Not Reported</td>
<td>0.0</td>
</tr>
<tr>
<td>D-</td>
<td>W Withdrawed no academic assessment</td>
<td>0.0</td>
</tr>
<tr>
<td>CR</td>
<td>I Incomplete</td>
<td>-</td>
</tr>
<tr>
<td>AT</td>
<td>Audit</td>
<td>-</td>
</tr>
<tr>
<td>NC</td>
<td>Credit only</td>
<td>-</td>
</tr>
<tr>
<td>F</td>
<td>S Satisfactory</td>
<td>-</td>
</tr>
</tbody>
</table>

In terms prior to and including 1985, any of the above grades might be preceded by a 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.
- 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.
- 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, nursing and law.
Academic Standing

ACADEMIC STANDING

The Dean’s List
At the end of each semester the names of full-time undergraduate students ranking in the upper 10 percent of their class for that term are announced and published on the permanent roll known as the dean’s list. Students must complete a minimum full-time program of 12 graded hours to qualify for the dean’s list. The credit/no credit option may not be used as part of the 12 graded hours.

The permanent academic records for qualifying students are annotated to reflect this distinction. Grade reports indicate students who are candidates for the dean’s list.

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.

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.

Graduation

GRADUATION

Students who anticipate graduating must file an application for graduation before the end of the fourth week of the semester in which they intend to graduate. Commencement is optional and participating in commencement does not mean that a student has graduated. The application for graduation triggers a degree check. The degree check is conducted following the recording of grades for the semester in which the student anticipates graduation. All degree requirements must be fulfilled, including documentation of all requirements in 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 two degree programs are administered by different academic units, the major requirements of both academic units, as well as the general education requirements, must be fulfilled, as specified by the department or academic unit responsible for the primary degree. The double major is only available in B.A./B.A. or B.S./B.S. combinations.

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

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

CHANGES IN DEGREE REQUIREMENTS

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

- Students who enter as first-time freshmen or transfer students may fulfill the degree requirements in effect at the time of their original admission to their degree program, provided there has not been a lapse in attendance at UMKC of more than one consecutive calendar year prior to 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 prior to one term.

MINIMUM HOURS

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

ASSESSMENT REQUIREMENTS

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

**WRITTEN ENGLISH PROFICIENCY TEST (WEPT)**
Candidates for all baccalaureate degrees must pass the UMKC Written English Proficiency Test before enrolling in required junior-level writing or writing intensive courses. Students who register for the required junior-level course without first passing the WEPT may be removed from enrollment or may not receive credit for the course.

The WEPT is given twice each fall and spring semester and once in the summer. The dates of the test appear regularly on the Academic Calendar (www.umkc.edu/registrar/acal.asp). Notification also is posted and announced each semester prior to the test's administration. Students who wish to take the test must register and obtain preparatory materials from the English Department a few days prior to each test administration.

Students should take the test after completing the second required English composition course and after completing 45 hours of credit. Students who have not completed 45 hours will not be allowed to take the test.

**JUNIOR–SENIOR HOURS**
Undergraduate degree-seeking students are required to earn credit in at least 36 credit hours of coursework numbered 300 and above at UMKC. In the case of transfer credit, the coursework must be numbered as junior-senior level work by the transferring institution.

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

**GENERAL COURSE REQUIREMENTS**
The individual academic unit sections of the catalog are the official sources of details on the general course requirements pertinent to the different degrees.

**TIME LIMIT ON DEGREE CREDIT**
Credit over 15 years old at the time of application for graduation may not be applicable to a degree. Such credit may be subject to validation, at the discretion of the school/department involved, before it can be used to satisfy degree requirements.

**APPLICATION FOR GRADUATION**
Written application for graduation is required and should be filed before enrolling in the final 30 credit hours of coursework. 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 bachelor's degrees with Summa Cum Laude honors. Students in the next 5 percent will be awarded their bachelor's degrees with Magna Cum Laude honors, and students in the next 10 percent will be awarded their bachelor's degrees with Cum Laude honors. M.D., D.D.S., J.D. and Pharm.D. students are eligible to be awarded their degrees with Latin honors as determined by the Dean of their respective schools within the constraints of the Latin honors policy as established by the Faculty Senate.

**Privacy Rights**

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

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

**Transcripts**

**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.

**Fees**

**FEE INFORMATION**
Information about fees is only for the school year 2007-08. 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 Undergraduate and Graduate Catalogs (http://www.umkc.edu/catalog), as well as in each term’s registration guide. (http://www.umkc.edu/sched/registrationguide.htm) This guide is 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.

- General
  - Student Program/Use Fees
  - Non-Resident Tuition Scholarships
General

STUDENT PROGRAM/USE FEES
For 2007-08, the Student Program User Fee will be $15.22 for up to 12 credit hours per semester. This fee has four components:

- The Student Activity Fee is $4.25 per credit hour and funds student clubs and organizations as well as a variety of student activities and services.
- The Intercollegiate Athletic Fee is $4.28 per credit hour and provides support for the UMKC's men's and women's intercollegiate athletic programs.
- The Physical Facilities Fee is $0.67 per credit hour and funds student-related facilities repair and renovation.
- The University Center Fee is $6.02 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 $11.70 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 Spring Semester and $15 for Summer Session for the multipurpose recreation facility.

A student health fee of $3.74 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.

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

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 registration guide. (http://www.umkc.edu/sched/registrationguide.htm) 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
Student accounts will be subject to a late fee of $10 when payment is not received by the scheduled due date as communicated on the student’s 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 or Discover Only*

Credit card payments can only be made via:

- Online Web site - [http://www.umkc.edu/~payroos](http://www.umkc.edu/~payroos)
  
  This Web site will direct you to the University’s vendor for credit card processing.
  
  A service fee will be charged by the third party vendor.

- Self-Service Center (computer kiosk)
  
  Registrar’s Office, AC, Room 115
  
  A service fee will be charged by the third party vendor.

**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
- 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 2007-08, the late fee will be $35.

**SERVICE CHARGE FOR RETURNED CHECKS**

There will be a service charge of $25 for all returned checks (paper or electronic). 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 or 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. Students will be responsible for the collection fees. 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**

**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.

Refunds may also be initiated by using Pathway 24/7 at [http://pathway.umkc.edu](http://pathway.umkc.edu).

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

**Calendar for Refunds**

The last day for refunds can be found in the following schedule:

<table>
<thead>
<tr>
<th>Fall 2007</th>
<th>Spring 2008</th>
<th>Fee Refund</th>
<th>1st 8wk</th>
<th>2nd 8wk</th>
<th>1st 8wk</th>
<th>2nd 8wk</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>8/19</td>
<td>8/19</td>
<td>8/19</td>
<td>10/14</td>
<td>1/13</td>
<td>1/13</td>
</tr>
<tr>
<td>80%</td>
<td>8/25</td>
<td>8/22</td>
<td>10/17</td>
<td>1/18</td>
<td>1/16</td>
<td>3/12</td>
</tr>
<tr>
<td>60%</td>
<td>8/31</td>
<td>8/24</td>
<td>10/19</td>
<td>1/28</td>
<td>1/18</td>
<td>3/14</td>
</tr>
<tr>
<td>40%</td>
<td>9/10</td>
<td>8/29</td>
<td>10/24</td>
<td>2/4</td>
<td>1/23</td>
<td>3/18</td>
</tr>
<tr>
<td>20%</td>
<td>9/17</td>
<td>8/31</td>
<td>10/26</td>
<td>2/11</td>
<td>1/28</td>
<td>3/21</td>
</tr>
</tbody>
</table>

**Note:** Because students have access to drop classes on Pathway 24/7, some of these dates may fall on the weekend.

Official dates for the fee refund schedule can be found at [http://www.umkc.edu/adminfinance/finance/cashiers/feestructure.asp](http://www.umkc.edu/adminfinance/finance/cashiers/feestructure.asp).

UMKC will adjust this schedule individually to meet federal regulations.

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:**

**Mailing Address**

University of Missouri-Kansas City
Registrar’s Office
115 Administrative Center
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

HOUSING

On-Campus Housing

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

- The 326-bed Cherry Street Residence Hall located at 5030 Cherry offers a traditional-style hall with a mandatory food plan.
- The new Oak Street Residence Hall opened in fall of 2004 and features suite-style living for 561, also with a mandatory meal plan.

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 two residential facilities. For further information concerning housing at UMKC please contact:

UMKC Office of Residential Life
Cherry Street Residence Hall, Room 109
5030 Cherry Street
Kansas City, MO 64110
(816) 235-8840

Mailing Address
University of Missouri-Kansas City
Residential Life Office
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 Office of Admissions. For more information visit:

Welcome Center
Administrative Center, Room 120
5115 Oak Street
(816) 235-8652
Fax: (816) 235-5544
welcome@umkc.edu
http://www.umkc.edu/welcome

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

Fee Schedule

FEE SCHEDULE

Note: The University reserves the right to modify by increase or decrease the fees charged for attendance and other services at 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 2007, Spring Semester 2008

<table>
<thead>
<tr>
<th>Missouri Resident Fee Schedule</th>
<th>Missouri Non-Resident Fee Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Fee</td>
<td>Educational Fee</td>
</tr>
<tr>
<td>Student (a)</td>
<td>Student (a)</td>
</tr>
<tr>
<td>Programs Fee</td>
<td>Programs Fee</td>
</tr>
<tr>
<td>Tech. Fee</td>
<td>Tech. Fee</td>
</tr>
<tr>
<td>Health Fee (b)</td>
<td>Health Fee (b)</td>
</tr>
<tr>
<td>ASUM Fee</td>
<td>ASUM Fee</td>
</tr>
<tr>
<td>Total Fee</td>
<td>Total Fee</td>
</tr>
<tr>
<td>Multi-(c)</td>
<td>Multi-(c)</td>
</tr>
<tr>
<td>Purpose</td>
<td>Purpose</td>
</tr>
<tr>
<td>User Fee</td>
<td>Hour Bldg. Fee</td>
</tr>
<tr>
<td>Missouri Resident Flat Rate</td>
<td>Missouri Non-Resident Flat Rate</td>
</tr>
<tr>
<td>Pharmacy, Pharm. D.</td>
<td>Pharmacy, Pharm. D.</td>
</tr>
<tr>
<td>Flat Rate</td>
<td>Flat Rate</td>
</tr>
<tr>
<td>Pharmacy, Graduate</td>
<td>Pharmacy, Graduate</td>
</tr>
<tr>
<td>$393.00</td>
<td>$923.10</td>
</tr>
<tr>
<td>$15.22</td>
<td>$11.70</td>
</tr>
<tr>
<td>$3.74</td>
<td>$3.74</td>
</tr>
<tr>
<td>$0.15</td>
<td>$0.15</td>
</tr>
<tr>
<td>$326.71</td>
<td>$326.71</td>
</tr>
<tr>
<td>$30.00</td>
<td>$30.00</td>
</tr>
<tr>
<td>$8,236.01</td>
<td>$8,236.01</td>
</tr>
<tr>
<td>Medicine (1-2) (e)</td>
<td>Medicine (1-2) (e)</td>
</tr>
<tr>
<td>$587.80</td>
<td>$587.80</td>
</tr>
<tr>
<td>$15.22</td>
<td>$15.22</td>
</tr>
<tr>
<td>$11.70</td>
<td>$11.70</td>
</tr>
<tr>
<td>$3.74</td>
<td>$3.74</td>
</tr>
<tr>
<td>$0.15</td>
<td>$0.15</td>
</tr>
<tr>
<td>$609.61</td>
<td>$609.61</td>
</tr>
<tr>
<td>$30.00</td>
<td>$30.00</td>
</tr>
<tr>
<td>$9,707.01</td>
<td>$9,707.01</td>
</tr>
<tr>
<td>Medicine (3-6) Flat Rate (m)</td>
<td>Medicine (3-6) Flat Rate (m)</td>
</tr>
<tr>
<td>$5,569.39</td>
<td>$5,569.39</td>
</tr>
<tr>
<td>Anesthesia, Graduate Flat Rate</td>
<td>Anesthesia, Graduate Flat Rate</td>
</tr>
<tr>
<td>$10,499.41</td>
<td>$10,499.41</td>
</tr>
<tr>
<td>Dentistry, D.D.S. Flat Rate</td>
<td>Dentistry, D.D.S. Flat Rate</td>
</tr>
<tr>
<td>$11,823.81</td>
<td>$11,823.81</td>
</tr>
<tr>
<td>Dentistry, Graduate</td>
<td>Dentistry, Graduate</td>
</tr>
<tr>
<td>$874.50</td>
<td>$874.50</td>
</tr>
<tr>
<td>$15.22</td>
<td>$15.22</td>
</tr>
<tr>
<td>$11.70</td>
<td>$11.70</td>
</tr>
<tr>
<td>$3.74</td>
<td>$3.74</td>
</tr>
<tr>
<td>$0.15</td>
<td>$0.15</td>
</tr>
<tr>
<td>$905.51</td>
<td>$905.51</td>
</tr>
<tr>
<td>$30.00</td>
<td>$30.00</td>
</tr>
<tr>
<td>$12,665.81</td>
<td>$12,665.81</td>
</tr>
<tr>
<td>Law, J.D.</td>
<td>Law, J.D.</td>
</tr>
<tr>
<td>$458.40</td>
<td>$458.40</td>
</tr>
<tr>
<td>$15.22</td>
<td>$15.22</td>
</tr>
<tr>
<td>$11.70</td>
<td>$11.70</td>
</tr>
<tr>
<td>$3.74</td>
<td>$3.74</td>
</tr>
<tr>
<td>$0.15</td>
<td>$0.15</td>
</tr>
<tr>
<td>$489.21</td>
<td>$489.21</td>
</tr>
<tr>
<td>$30.00</td>
<td>$30.00</td>
</tr>
<tr>
<td>Law, LL.M.</td>
<td>Law, LL.M.</td>
</tr>
<tr>
<td>$534.70</td>
<td>$534.70</td>
</tr>
<tr>
<td>$15.22</td>
<td>$15.22</td>
</tr>
<tr>
<td>$11.70</td>
<td>$11.70</td>
</tr>
<tr>
<td>$3.74</td>
<td>$3.74</td>
</tr>
<tr>
<td>$0.15</td>
<td>$0.15</td>
</tr>
<tr>
<td>$565.51</td>
<td>$565.51</td>
</tr>
<tr>
<td>$30.00</td>
<td>$30.00</td>
</tr>
<tr>
<td>Law, LL.M.</td>
<td>Law, LL.M.</td>
</tr>
<tr>
<td>$1,058.10</td>
<td>$1,058.10</td>
</tr>
<tr>
<td>$15.22</td>
<td>$15.22</td>
</tr>
<tr>
<td>$11.70</td>
<td>$11.70</td>
</tr>
<tr>
<td>$3.74</td>
<td>$3.74</td>
</tr>
<tr>
<td>$0.15</td>
<td>$0.15</td>
</tr>
<tr>
<td>$1,088.91</td>
<td>$1,088.91</td>
</tr>
<tr>
<td>$30.00</td>
<td>$30.00</td>
</tr>
<tr>
<td>Law, J.D.</td>
<td>Law, J.D.</td>
</tr>
<tr>
<td>$905.10</td>
<td>$905.10</td>
</tr>
<tr>
<td>$15.22</td>
<td>$15.22</td>
</tr>
<tr>
<td>$11.70</td>
<td>$11.70</td>
</tr>
<tr>
<td>$3.74</td>
<td>$3.74</td>
</tr>
<tr>
<td>$0.15</td>
<td>$0.15</td>
</tr>
<tr>
<td>$935.91</td>
<td>$935.91</td>
</tr>
<tr>
<td>$30.00</td>
<td>$30.00</td>
</tr>
<tr>
<td>Law, LL.M.</td>
<td>Law, LL.M.</td>
</tr>
<tr>
<td>$1,157.60</td>
<td>$1,157.60</td>
</tr>
<tr>
<td>$15.22</td>
<td>$15.22</td>
</tr>
<tr>
<td>$11.70</td>
<td>$11.70</td>
</tr>
<tr>
<td>$3.74</td>
<td>$3.74</td>
</tr>
<tr>
<td>$0.15</td>
<td>$0.15</td>
</tr>
<tr>
<td>$1,188.41</td>
<td>$1,188.41</td>
</tr>
<tr>
<td>$30.00</td>
<td>$30.00</td>
</tr>
<tr>
<td>Medicine (1-2)</td>
<td>Medicine (1-2)</td>
</tr>
<tr>
<td>$29,669.19</td>
<td>$29,669.19</td>
</tr>
<tr>
<td>Anesthesia, Graduate Flat Rate</td>
<td>Anesthesia, Graduate Flat Rate</td>
</tr>
<tr>
<td>$15,549.41</td>
<td>$15,549.41</td>
</tr>
<tr>
<td>Dentistry, D.D.S. Flat Rate</td>
<td>Dentistry, D.D.S. Flat Rate</td>
</tr>
<tr>
<td>$23,123.01</td>
<td>$23,123.01</td>
</tr>
<tr>
<td>Dentistry, Graduate</td>
<td>Dentistry, Graduate</td>
</tr>
<tr>
<td>$2,745.90</td>
<td>$2,745.90</td>
</tr>
<tr>
<td>$15.22</td>
<td>$15.22</td>
</tr>
<tr>
<td>$11.70</td>
<td>$11.70</td>
</tr>
<tr>
<td>$3.74</td>
<td>$3.74</td>
</tr>
<tr>
<td>$0.15</td>
<td>$0.15</td>
</tr>
<tr>
<td>$1,776.71</td>
<td>$1,776.71</td>
</tr>
<tr>
<td>$30.00</td>
<td>$30.00</td>
</tr>
<tr>
<td>$24,865.41</td>
<td>$24,865.41</td>
</tr>
</tbody>
</table>
Other Fees

<table>
<thead>
<tr>
<th>Fee</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Late Registration Fee</td>
<td>$35.00</td>
</tr>
<tr>
<td>Applied Music Fee</td>
<td>$193.00</td>
</tr>
<tr>
<td>Clinical Nursing Fee</td>
<td>$155.10</td>
</tr>
<tr>
<td>Geoscience Lab Fee</td>
<td>$10.00</td>
</tr>
<tr>
<td>Media Studies Lab Fee</td>
<td>$29.00</td>
</tr>
<tr>
<td>SCE Undergraduate Supplemental Fee</td>
<td>$155.10</td>
</tr>
<tr>
<td>School of Education Course Fee</td>
<td>$10.00</td>
</tr>
<tr>
<td>Science Lab Fee</td>
<td>$10.00</td>
</tr>
<tr>
<td>Studio Arts Fee</td>
<td>$23.40</td>
</tr>
<tr>
<td>Graduation Cluster Fees:</td>
<td></td>
</tr>
<tr>
<td>Accountancy</td>
<td>$30.90</td>
</tr>
<tr>
<td>Business Administration</td>
<td>$30.90</td>
</tr>
<tr>
<td>SCE</td>
<td>$52.30</td>
</tr>
</tbody>
</table>

(a) Breakdown of Student Program User Fee (assessed on the first 12 hours): University Center Fee $6.02; Athletic Fee $4.28; Student Activity Fee $4.25; Physical Facilities Fee $0.67.
(b) 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.
(c) Per semester.
(d) Includes residents of Johnson, Leavenworth, Miami and Wyandotte counties in Kansas. See "Metro Rate" in General Undergraduate Admissions Policies and Procedures earlier in this catalog.
(e) Effective Fall Semester 2007, the School of Medicine's fees have been restructured to include a regional tuition rate for students from certain Midwestern states. Newly admitted students from Kansas, Oklahoma, Nebraska, Arkansas and Illinois will be assessed at 1.5 times the resident rate. Students from other states will be assessed at 2 times the resident rate.

Intercollegiate Athletics

INTERCOLLEGIATE ATHLETICS

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

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

Director of Athletics:
Tim Hall

DESCRIPTION

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 is sponsored as a co-educational sport.

All UMKC students may attend home events at no charge by showing their student identification card at the ticket window 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 Kangaroos became an NCAA Division I member institution in 1987. After seven years as an independent, UMKC joined the Mid-Continent Conference in 1994.

The UMKC intercollegiate athletics program emphasizes a student-oriented philosophy that includes academic excellence and campus/community service while fielding competitive teams with the objective of winning championships. 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, 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 in downtown Kansas City, men's soccer home contests are conducted at Swope Park and women's softball home contests are played at Cleveland Park in Kansas City, Mo.

Division of Student Affairs

DIVISION OF STUDENT AFFAIRS AND ENROLLMENT MANAGEMENT

Office of the Vice Chancellor
Administrative Center, Room 336
5115 Oak Street
The out-of-classroom experience is significant at UMKC in that it integrates with our students’ academic development to provide an enriched total university life experience. This division champions a vibrant and extensive co-curricular program which offers support services that help students attain their academic goals.

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

- **Departments**
  - Office of Admissions
  - Career Services
  - Center for Academic Development
  - Counseling, Health and Testing Center
  - Financial Aid and Scholarships Office
  - HelpLine
  - Institute for Professional Preparation
  - International Student Affairs
  - Multicultural Student Affairs
  - Registration and Records
  - Residential Life
  - Student Disability Services
  - Student Health and Wellness
  - Student Life
    - Activity and Program Council (APC)
    - Associated Students of University of Missouri (ASUM)
    - Campuswide Honor Societies
    - Clubs and Organizations
    - Communiversity
    - Departmental Honorary and Professional Societies
    - Leadership Programs
    - LGBTQ Programs and Services
    - Parents’ Council
    - Social Fraternities and Sororities
    - Student Government Association (SGA)
- University News
  - Swinney Recreation Center
  - University Center
  - Welcome Center
  - Women’s Center

- **Student Affairs Offices Located in Academic Units**
  - College of Arts and Sciences
  - Henry W. Bloch School of Business and Public Administration
  - School of Biological Sciences
  - School of Computing and Engineering
  - School of Dentistry Office of Student Programs
  - School of Education
  - School of Graduate Studies
  - School of Law
  - School of Medicine
  - Conservatory of Music and Dance
  - School of Nursing
  - School of Pharmacy

**Office of Admissions**

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

Admissions

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

Recruitment

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

Orientation

The Office of Admissions coordinates orientation programs for new freshmen and transfer students. Admitted students receive information about orientation in late spring. Orientation is mandatory for new freshmen, optional for transfer students and includes initial academic advising.

Welcome Center

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

Career Services

CAREER SERVICES

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

Director: Candice Stice

The Career Services staff is a select group of professionals representing a wide array of backgrounds. All are trained in current trends and provide a variety of programs and services in career planning, life planning and development.

Professional staff can assist students in career exploration and effective career decision-making. The Career Services Center offers ED 160, Career and Life Planning, in the fall and spring semesters for two credit hours. A&S 170 (PACE) Career and Life Development is offered every spring semester for three credits.

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

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

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

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

Career Services also provides a full range of career planning and development services for alumni of the University of Missouri system, alumni of other colleges and universities and the community.

An employment database provides information on full-time jobs that are available to registrants. For additional information, call (816) 235-1636.

Center for Academic Development

CENTER FOR ACADEMIC DEVELOPMENT

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

Director: Glen Jacobs

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

Supplemental Instruction

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

Upward Bound

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

UMKC Coaching Program

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

Jumpstart

Jumpstart Kansas City is a local affiliate site of Jumpstart for Young Children, Inc. This campus-based AmeriCorps program recruits, trains and pairs work-study supported college students with preschool children in Head Start and other low-income early learning programs. Throughout the school year and through a special summer program, college students help preschool children develop the skills needed to be successful in school. Jumpstart focuses on promoting school success for young children, encouraging strong family involvement and training college students to be future teachers and leaders.

Math Resource Center

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

UMKC Trustees’ Scholars Program

The Center for Academic Development (CAD), in conjunction with the UMKC Trustees, Offices of Admissions, Financial Aid, Residential Life and other Student Affairs departments, coordinates the UMKC Trustees’ Scholars Program. The UMKC Trustees’ Scholars Program is an exciting scholarship that provides a fully funded, full educational and experiential program to a select group of 19 entering freshman seeking an undergraduate degree at UMKC. Students must meet two of the three academic criteria: 3.0 or higher ACT, top 5 percent of his/her high school class and/or a 3.5 cumulative high school GPA in the core unit curriculum. In addition, all recipients are evaluated on their proven community or school involvement and leadership ability.

Counseling, Health and Testing Center

COUNSELING, HEALTH AND TESTING CENTER

4825 Troost Avenue, Suite 206
(816) 235-1635
Fax: (816) 235-5534
http://www.umkc.edu/chtctc

Director: Marita Barkis, Ph.D.

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

Counseling

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

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

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

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

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

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

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

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

The Alcohol and Drug Coordinator for the campus offers related individual services, assessments and outreach programs. The Coordinator can be contacted at x5532.

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

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

The Testing Center is open Tuesday through Saturday from 7:30 am to 4:30 pm. All tests are administered by appointment on space available bases. Government issued I.D. (driver's license,
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.

Aid recipients are responsible for promptly informing the Financial Aid and Scholarships Office of any changes in financial status, reduction of course load, changes from undergraduate to graduate status, or withdrawal. Address changes should be made promptly through the UMKC Registration and Records Office.

For more information, see the Student Disability Services section.

Financial Aid and Scholarships Office
Office of the Registrar

OFFICE OF THE REGISTRAR

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

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

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

International Student Affairs

INTERNATIONAL STUDENT AFFAIRS

International Student Affairs Office
5235 Rockhill Road
Tel: (816) 235-1113
Fax: (816) 235-6577
isao@umkc.edu
http://www.umkc.edu/isao

Director: Sandy Gaut

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

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

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

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

Multicultural Student Affairs

MULTICULTURAL STUDENT AFFAIRS

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

Director: Catherine Kironde-Ross

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

- Maintaining an open door policy.
- Interacting with and assisting students, informal mentoring and coaching assisting students locate and utilize campus resources.
- Planning a variety of activities and events throughout the academic year that stimulate educational, cultural and social growth. These activities include panel discussions, lectures and traditional events such as African American History Month, Hispanic Heritage Month, and the Multicultural Graduation Reception.
- Supporting and advising multicultural student organizations including TAASU (the African American Student Union), ALAS (the Association of Latin American Students), NSBE (the National Society of Black Engineers), NAACP (the National Association for the Advancement of Colored People) and NPHC (the National Pan-Hellenic Council).
- Encouraging and supporting students to get involved in campus activities and organizations and to take advantage of the many leadership opportunities available on campus.
- Collaborating with other departments, academic units and student organizations to further enhance our programs so that we can adequately meet the needs of students of color at UMKC.

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

Multicultural Student Affairs also directs the activities of the African American History and Culture House (affectionately known simply as the Culture House). The mission of the Culture House is to increase and enrich the general understanding of African American history and culture. The Culture House serves as a place for students to study, hang out, attend events and meetings and meet other students. The Culture House has study and meeting areas, an art gallery, a computer lab and a TV lounge. The Culture House also sponsors events throughout the year. Recent events include Kids Day at the Culture House, Lunch with Edward P. Jones and Let’s Talk about Hair. The Culture House Gallery highlights the works of local artists. During the 2007-08 academic year, the Culture House Gallery hosted the following exhibits: They Came to Fight, Carnival and Dolls.

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

Residential Life

All of UMKC's residential facilities are conveniently located on the west side of campus, near the University Center (cafeteria), Swinney Recreation Center and within easy walking distance to all other Volker campus buildings. UMKC's newest facility is Oak Place Apartments, a 500 bed apartment complex serving the needs of second year students through graduate students. This new residential community features semi-private bathrooms, social and quiet study lounges, music practice rooms, kitchenettes on every floor, large indoor and outdoor recreation and lounging areas and a high-tech classroom. The Cherry Street Residence Hall, housing up to 326 students, also offers many recreational and student-oriented amenities, as well as a computer lab. Both UMKC residence halls have Ethernet hook-ups for every student, cable television hook-ups and microwave/refrigerator units all in student rooms.

Student Disability Services

The office is committed to ensuring that students with disabilities feel welcomed and supported at UMKC, that they are engaged in the campus community, that they feel that UMKC is their university and that UMKC is responsive to their unique needs.

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

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

Student Health and Wellness

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

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

Student Health personnel include nurse practitioners, registered nurses and administrative personnel. When a health problem requires resources beyond Student Health, personnel will assist the student with an appropriate referral.
There is no charge to UMKC students for a Student Health visit, however, additional services or laboratory testing may involve a charge. Students will be made aware of any charges before they are incurred. Charges may be paid with cash, check or charged to the student's UMKC account.

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

**Student Life**

**University Center, Room G6**

5100 Rockhill Road

(816) 235-1407

Fax: (816) 235-5590

stulife@umkc.edu

http://www.umkc.edu/stulife

Interim Director: Shelby Coxon

**Hours**

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

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

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

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

**Activity and Program Council (APC)**

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

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

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

**Associated Students of University of Missouri (ASUM)**

This is an organization that represents and advocates the interests and welfare of Missouri students before the General Assembly, the Board of Curators, the Governor and other executive agencies. ASUM sponsors a variety of programs on campus throughout the year to increase student awareness and involvement in the legislative process. To contact ASUM call (816) 235-1231.

**Campuswide Honor Societies**

- The Delta Alpha Chapter of Mortar Board at UMKC is one of the nearly 200 national chapters of this senior honor society. Juniors are annually selected for membership on the basis of scholarship, leadership and community service. UMKC's Mortar Board chapter, installed in 1973, emphasizes University service.

- Omicron Delta Kappa is a national leadership honor society of students and faculty members, with circles on more than 200 college campuses throughout the country. The society recognizes and encourages the achievement of superior scholarship and leadership. Membership is granted on the basis of merit. Once achieved, it becomes as much an obligation and responsibility in citizenship as it is a mark of highest distinction and honor. In addition to the prestige that accompanies membership in Omicron Delta Kappa, all members are expected to engage cooperatively in effective leadership and services for the good of the institution and the community.

- Phi Kappas 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 1896 and established itself as a national organization in 1897 with 38 chapters. The goal is to recognize the scholarly achievement of international students and scholars, U.S. students who have studied abroad and faculty and staff who are involved in international activities. They serve as a vehicle for development of academic-based international programming, provide an on-campus network of faculty, staff and students involved in international endeavors and works to extend this network to thousands of members in chapters nationwide.

- Alpha Lambda Delta honors excellent academic achievement by students in their first and second year of study in higher education. The society has numerous programs to encourage continued superior classroom performance, such as awards, national workshops, campus activities, scholarships, fellowships and loans for undergraduate, graduate and professional study. For more information about campuswide honor societies call (816) 235-1407.

**Clubs and Organizations**

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

**CommUniversity**
SOCIAL FRATERNITIES AND SORORITIES

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

PARENTS' COUNCIL

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

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

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

LEADERSHIP PROGRAMS

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

LGBT PROGRAMS AND SERVICES

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

PARENTS’ COUNCIL

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

SOCIAL FRATERNITIES AND SORORITIES

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

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

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

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

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

STUDENT GOVERNMENT ASSOCIATION (SGA)

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

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

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

UNIVERSITY NEWS

The University News student newspaper is published weekly for the UMKC student community. Students interested in becoming involved with the campus newspaper should call (816) 235-1393.
Swinney Recreation Center

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

Director: Marsha Pirtle

Swinney Recreation Center includes the following:

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

All students who have paid the multipurpose fee are eligible to use the center. Student membership in the center runs from the first day of class of the current semester to the first day of class of the following semester.

In conjunction with the Swinney Recreation Center, the UMKC Campus Recreation/Intramural Department offers a variety of individual and team sports and programs. Student Intramural Leagues consist of Flag Football, Volleyball, Basketball, Kickball, Softball and Ultimate Frisbee. Individual tournaments include Table Tennis, Golf Chipping, Three Point Shot and many others. For students, faculty/staff and SRC members, activities range from aerobics and swimming lessons (group or private).

University Center

University Center
5000 Holmes Street
(816) 235-1411
Fax: (816) 235-1419
http://www.umkc.edu/ucenter

Director: Jody Jeffries

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

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

Welcome Center

Welcome Center
Administrative Center, Room 120
5115 Oak Street
(816) 235-8652
(800)775-8652
Fax: (816) 235-5544
welcome@umkc.edu
http://www.umkc.edu/welcome

Manager: Sydney Rogers

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

Women's Center

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

Director: Brenda L. Bethman

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

In support of this mission, the Women's Center:
Student Affairs Offices Located in Academic Units

**COLLEGE OF ARTS AND SCIENCES**

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

Associate Dean: Thomas C. Sandreczki

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

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

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

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

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

**HENRY W. BLOCH SCHOOL OF BUSINESS AND PUBLIC ADMINISTRATION**

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

Assistant Dean for Student Services: Kami Thomas

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

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

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

**SCHOOL OF BIOLOGICAL SCIENCES**

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

Director of Curriculum: Lynda S. Plamann

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

The School of Biological Sciences provides academic advising for all undergraduate students each semester prior to registration. Information and appointments can be obtained by calling (816) 235-2580.

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

**SCHOOL OF COMPUTING AND ENGINEERING**

Student Services -- Computer Science Electrical Engineering
Anna Simmons
556 Flarsheim Hall
(816) 235-5661
Both the CME and CSEE departments in the School of Computing and Engineering provide advising and counseling to prospective students who are planning to major in SCE degree programs. In addition both offices enroll all visiting and community students wanting to take courses offered within SCE. Following admission and acceptance into SCE programs, students are assigned a faculty advisor and all SCE students are required to be advised each semester and should contact the department offices for appointments.

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

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

**School of Dentistry**

Office of Student Programs  
Dental School, Room 420  
615 E. 52nd Street  
(816) 235-2080  
dentistry@umkc.edu  
http://dentistry.umkc.edu

Assistant Dean for Student Programs: John W. Killip

The Office of Student Programs (OSP) at the School of Dentistry functions within three primary areas of focus and responsibility: admissions/recruitment, student records and student support services.

Representative services/activities provided by the OSP include identification and counseling of potential applicants, processing applications to the school, registration and maintenance of student records, initial assistance in financial aid and counseling and housing.

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

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

**School of Education**

Office of Student Services  
Education Building, Room 129  
615 E. 52nd Street  
(816) 235-2334  
education@umkc.edu  
http://education.umkc.edu

Assistant Dean: Ginny Miller

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

Advising

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

Certification

Certification applications and testing information for Missouri and Kansas is kept on file in the Student Services office. The staff processes all applications for education-related certification.

**School of Graduate Studies**

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

Manager of Student Services: Constance Smith Mahone

The School of Graduate Studies is the academic home for students enrolled in the Interdisciplinary Ph.D. program, monitoring student progress and providing a variety of support services for the students enrolled in the program. The school coordinates training for Graduate Teaching Assistants, processes requests for graduate student travel support and, in conjunction with the Graduate Student Fellowship and Awards Committee, administers a number of campus graduate competitions. The School of Graduate Studies also works with departments in the Division of Student Affairs to provide programs of special interest to graduate students. Staff members advise students seeking information about graduate study and direct inquirers to the appropriate academic unit's principal graduate adviser. The Manager of Student Services also serves in an ombuds role for persons applying to graduate study.

**School of Law**

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

Director of Law School Admissions:  
Debbie Brooks (brooksdv@umkc.edu)

Director of Student Support Services:  
Nicole Francis (francisn@umkc.edu)

Director of Law School Career Services:  
Gerald Beechum (beechumg@umkc.edu)

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

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

**SCHOOL OF MEDICINE**

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

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

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

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

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

**CONSERVATORY OF MUSIC AND DANCE**

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

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

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

**SCHOOL OF NURSING**

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

Manager of Student Services: Judy Jellison

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

The Office of Student Services maintains student records for graduates and current students and provides assistance to nursing student organizations. In addition, Student Services personnel provide information to prospective students and the community at large regarding UMKC and the School of Nursing.

**SCHOOL OF PHARMACY**

Office of Student Services  
Health Sciences Building  
Hospital Hill Campus  
2464 Charlotte Street  
(816) 235-1613  
pharmacy@umkc.edu  
http://pharmacy.umkc.edu

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

The Student Services office at the School of Pharmacy provides those essential services that develop, maintain and support currently enrolled undergraduate and professional students, and those pre-pharmacy students desiring admission to the UMKC School of Pharmacy. The School of Pharmacy offers degree programs leading to the Bachelor of Science in Pharmaceutical Sciences, Doctor of Pharmacy and graduate level degrees in pharmaceutical sciences and pharmacology.

Student support services include academic advising, short-term counseling referral, assistance in identifying scholarships, financial aid, and part-time employment, remediation and retention programs, records retention, registration and progression, assistance to student organizations with professional projects. The Student Services office works closely with the director of alumni affairs within the School in developing programs that link current students and alumni. Staff and administrators in the office also serve on a number of School and University committees and task forces, and are responsible for drafting reports to pharmacy agencies such as the American Association of Colleges of Pharmacy and the Accreditation Council for Pharmacy Education.

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

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

**Learning Programs and Resources**

**LEARNING PROGRAMS AND RESOURCES HOME PAGE**

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
General Education

The general education curriculum at UMKC provides 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.

Fellowships

For more information visit FaCET’s Web site at http://www.umkc.edu/provost/initiatives/FaCET or contact us at facet@umkc.edu.

Study Abroad

Center for International Academic Programs

5325 Rockhill Road
(816) 235-5759
http://www.umkc.edu/international

The Center for International Academic Programs (CIAP) serves as a resource for UMKC students who would like to have an international academic experience while earning UMKC credit. CIAP provides information on study abroad options and oversees UMKC’s cooperative student exchange programs with colleges and universities in several countries including the Czech Republic, England, France, Germany, Mexico and Spain. For a detailed listing of available study abroad programs, deadlines and related scholarships, visit our Web site.

Interested students should contact CIAP for assistance in planning their international study abroad program. In order to receive academic credit, students must complete the required documents (available at CIAP). As outlined in the Guidelines for University of Missouri-Sponsored Study Abroad Programs, all students must also enroll in the mandatory study abroad insurance and complete an Assumption of Risk and Release form prior to departure. Students accepted into a program are required to attend a mandatory pre-departure orientation.

Students are invited to visit CIAP, located at 5325 Rockhill Road. 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, visit http://www.umkc.edu/international.

SEARCH

SEARCH (Students Engaged in Artistic and Academic Research)

Ernest Manheim Hall, Room 106F
710 E. 52nd Street
(816) 235-6163
http://www.umkc.edu/searchsite

Program Director:
James Murowchick, Ph.D.
Associate Professor of Geosciences
murowchick@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.

Each April, 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 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.

General Education

FaCET

Miller Nichols Library, Room 122
800 East 51st Street
(816) 235-6362
facet@umkc.edu
http://www.umkc.edu/provost/initiatives/FaCET

FaCET’s Mission

The Faculty Center for Excellence in Teaching (FaCET) is faculty defined and operated with a focus on promoting academic excellence through effective teaching practices. The Center sponsors a range of formal and informal conversations about student learning and the assessment, development and documentation of teaching. Through the Student Learning Network, the Center is a hub for existing UMKC programs that emphasize student learning. We have a broad sense of our mission and welcome new participants from across UMKC. FaCET remains open to suggestions about how we can best promote excellent teaching at UMKC.

For more information visit FaCET’s Web site at http://www.umkc.edu/provost/initiatives/FaCET or contact us at facet@umkc.edu.

Fellowships
THE HONORS PROGRAM

This program offers excellent academic 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 also may 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, students have the option to complete a seminar project, the Senior Honors Thesis and graduate as an Honors College Scholar. The Honors Program at UMKC also offers:

- 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 percent on the ACT or SAT and top 10 percent 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 project assignments that address 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. Through its programs and services, Students in the City:

- Facilitates connections between community organizations and UMCK 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.
- Hosts forums for community members and UMCK faculty, staff and students to learn about the best practices in the field of academic service-learning.

Contact us for more information on academic service-learning.

Information Services

INFORMATION SERVICES HOME PAGE

Administrative Center, Room 216
5115 Oak Street
Kansas City, MO 64110
(816) 235-2000
Campus Information (816) 235-5555
IS Call Center (816) 235-5759
Campus Operator (816) 235-1000
Campus 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

Chief Information Officer:
Mary Lou Hines Fritts

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 the Web site at http://www.umkc.edu/is.
The University has established guidelines that regulate the use of University-owned computer and network resources. The guidelines are online at [http://www.umkc.edu/is/CIO.asp](http://www.umkc.edu/is/CIO.asp).

- **Services**
  - Academic and Research Computing
  - Call Center
  - Classroom Technology Services
  - Computer Internet Bars
  - Online Learning Courses
  - Residence Hall Computers
  - RooTools - Software CD
  - Single Sign On (SSO) Accounts
  - Student Computer Labs
  - Student Web Pages
  - Wireless Computing
- **Departments**
  - Operations and Administration
  - Central Systems
  - Classroom Technology Services
  - Information Access
    - Instructional Technology Services
    - Multimedia Technology Services
  - IT Security and Research
  - Networking and Telecommunications
  - Support Services

**Library Services**

**LIBRARY SERVICES HOME PAGE**

Administrative Offices, University Libraries
Miller Nichols Library, Room 212
(816) 235-1531
[http://library.umkc.edu/](http://library.umkc.edu/)

Miller Nichols Library
800 E. 51st Street
[http://library.umkc.edu/mnl/index.html](http://library.umkc.edu/mnl/index.html)

Dental Library
Dental School
650 E. 25th Street
[http://library.umkc.edu/Dental/index.html](http://library.umkc.edu/Dental/index.html)

Health Sciences Library
School of Medicine
2411 Holmes Street
[http://library.umkc.edu/hsl/index.html](http://library.umkc.edu/hsl/index.html)

Leon E. Bloch Law Library
School of Law
500 E. 52nd Street
[http://www.umkc.edu/law/library](http://www.umkc.edu/law/library)

**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

Dean of Libraries:
Sharon L. Bostick
Associate Dean of Libraries:
Bonnie Postlethwaite
Director of Development:
Open Position
Assistant Director for Administrative Services:
Jennifer L. Biggi
Assistant Director for Public Services and Special Collections:
Elisabeth R. Harvey
Assistant Director for Technical Services and Collections:
Brenda L. Dingley
Assistant Director for the Health Sciences Libraries:
Peggy Mulally-Quijas
Head of Collections:
Stephen P. Alleman
Music/Media Librarian:
Laura Gayle Green
Director, Leon E. Bloch Law Library:
Paul D. Callister
Associate Director and Director of Electronic Services, Leon E. Bloch Law Library:
Phil Johnson

The University Libraries ([http://library.umkc.edu/](http://library.umkc.edu/)) provide research facilities, resources and services in support of academic programs. The [Miller Nichols Library](http://library.umkc.edu/) 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 University Libraries have reciprocal borrowing arrangements with many other libraries including the Linda Hall Library of Science, Engineering and Technology.

Circulation Desk telephone numbers are:

- Dental Library (816) 235-2030
- Health Sciences Library (816) 235-1880
- Leon E. Bloch Law Library (816) 235-1650
- Miller Nichols Library (816) 235-1526
- Music/Media Library (816) 235-1675

COLLECTIONS

Library services are based on combined collections of over 1.3 million print volumes; 6,764 current print serial subscriptions; 27,454 electronic serials; 9,580 electronic books; a growing collection of video/DVD titles; and substantial collections of government documents, microforms, sound recordings, DVDs 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. Access to library holdings and direct borrowing services at over 60 Missouri academic and public libraries is available through the online MOBIUS Union Catalog. Collections have been enhanced by generous gifts from individuals and the Friends of the Library.

COMMUNITY INFORMATION PROGRAM

The Community Information Program provides services for a fee in the Dental, Health Sciences and Miller Nichols libraries to non-UMKC businesses and individuals who have identified specialized 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

Circulation Desk telephone numbers are:

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

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 (https://library.umkc.edu/forms/illrenewal.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) 235-1566

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 300,000 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

Hours: 9:00am-5:00pm Monday - Friday

Appointments are recommended for large projects. (816) 235-2798 or 1031.

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, and Missouri University of Science and Technology (formerly the University of Missouri at Rolla). The MERLIN Library Catalog is available from the Libraries’ home page at: http://library.umkc.edu/. Instructions for using MERLIN are also in the Guide to MERLIN at: http://library.umkc.edu/online/databaseguides/merlin_web.htm. Access to the library catalogs of other colleges, universities and public libraries 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, video and DVDs.

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 Photo Print by Rich Services.
REFERENCE SERVICES
Miller Nichols Library Reference Services are located in the 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 electronic, print, and non-print sources. Each library site has trained staff available to provide reference services. Reference service is available online at: University Libraries Reference Form (https://library.umkc.edu/forms/ref.htm).

Reference desk telephone numbers are:
- Dental Library (816) 235-2030
- Health Sciences Library (816) 235-1885
- 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 two adaptive technology workstations that enable access to the Internet, library resources, and basic production software. These workstations allow screen reading and magnification, speech recognition, scanning and OCR to turn print into electronic text, and braille embossing. The library also has an adaptive technology laptop computer, two CCTVs, a stand-alone scanner reader, a TDD telephone, and alternative keyboard and mouse input devices.

Library personnel will assist people with disabilities in retrieving and photocopying materials from the collection. Appointments can be made with a subject specialist or the Coordinator of Disability Services for assistance with in-depth research questions or training in the use of the library’s databases or catalog. The library works in partnership with the Office of Services for Students with Disabilities to meet student needs. For further information, contact the Library’s Coordinator of Disability Services through the Reference Desk at (816) 235-1534.

SPECIAL COLLECTIONS
The Kenneth J. LaBudde Department of Special Collections in the Miller Nichols Library, is a vital resource for UMKC students, faculty, researchers, and visiting scholars from throughout the United States and around the globe. Visitors have an opportunity to enhance their research through the examination of a range of original materials including rare books and manuscripts, photographs, correspondence, pamphlets, broadsides, diaries, and music scores. Special Collections houses the Snyder Collection of Americana, the Suzanne Statland Collection on Holocaust Studies, the Richard W. Bolling Papers, the Truman Library’s Student Research File, and a number of other smaller collections. The department also offers marvelous research opportunities in music history, especially American music history and the history of American jazz (see: Marr Sound Archives). These are not browsing collections, but titles can be retrieved for supervised use in the library. For more information and service hours, please call (816) 235-1532.

Libraries

MILLER NICHOLS LIBRARY
Library Hours (816) 235-1671
Reference (816) 235-1534
Circulation (816) 235-1526
http://library.umkc.edu/mnl/index.html

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, the Kenneth J. LaBudde Department of 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 in the library and on the University Libraries’ Web site.)
- 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://library.umkc.edu/Dental/index.html

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 are 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://library.umkc.edu/hsi/index.html

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 schools of medicine, nursing, and pharmacy. A valid institutional identification card, such as the UMKC ID card, must be presented to enter the School of Medicine building after 5 p.m. Library hours are subject to change:
- Monday-Thursday: 8 a.m.-10 p.m.
- Friday: 8 a.m.-5:30 p.m.
The Leon E. Bloch Law Library is a comfortable, efficient and user-friendly facility located in the School of Law at 52nd and Oak streets and open to both students and members of the public. All UMKC students may check materials out with a current student ID.

The library contains holdings in all major areas of legal scholarship and practice, including international, comparative and government materials. Most of the collection is on open shelves, with ample research and study space provided by tables and study carrels, and dedicated work space provided for student editors of the UMKC Law Review and the Urban Lawyer.

The library has highly qualified reference librarians with many years of legal practice as well as library experience. Reference librarians are available during the regular semester as follows:

**Monday - Thursday** 9 a.m. - 7 p.m.
**Friday** 9 a.m. - 5 p.m.
**Sunday** 3 p.m. - 7 p.m.

The physical collection is augmented by subscription databases, an international interlibrary loan system, and a state-wide lending consortium, including the university and law libraries of the University of Missouri - Columbia, Saint Louis University and Washington University, with 3.7 million unique items held within the entire system.

**Electronic Resource Center:**

Technology has reshaped legal research in ways that will forever alter how attorneys and judges approach their work. The information professionals of the Leon E. Bloch Law Library have embraced this transformation by providing wireless networking throughout the law building and the Jerry Haley Electronic Resource Center (JHERC). The JHERC includes 40 Pentium-processor equipped computers, an instructional lab, Internet access, and numerous subscription databases.

The lab also includes printers, a scanner and a dedicated workstation for the visually impaired. Librarians provide instruction in legal information technologies during the first-year legal research and writing course, at a special research "boot camp" during spring intersession, and in upper-level courses and extra-curricular activities as needed.

**Law Library and Resource Center Hours**

**Monday - Thursday** 7 a.m. - Midnight
**Friday** 7 a.m. - 7 p.m.
**Saturday** 9 a.m. - 5 p.m.
**Sunday** Noon - Midnight

Summer, spring break and intersession hours are available at [http://www1.law.umkc.edu/Library/HOURS.HTM](http://www1.law.umkc.edu/Library/HOURS.HTM).

**MUSIC/MEDIA LIBRARY**

(816) 235-1675
[http://library.umkc.edu/musiclib/index.html](http://library.umkc.edu/musiclib/index.html)

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

**WESTERN HISTORICAL MANUSCRIPT COLLECTION**

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](http://www.umkc.edu/whmckc)
- State Historical Society of Missouri Manuscripts
- [http://www.umsysuem.edu/shs](http://www.umsysuem.edu/shs)
- University Archives
- [http://www.umkc.edu/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 collections 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

**OTHER LIBRARY RESOURCES HOME PAGE**

Linda Hall Library of Science, Engineering & Technology

5109 Cherry Street
(816) 363-4600
[http://www.lhl.lib.mo.us](http://www.lhl.lib.mo.us)

Linda Hall Library of Science, Engineering & Technology is an independent research library located 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 is also a U.S. Patent Depository Library.

UMKC faculty, students and staff may borrow books from Linda Hall Library by obtaining a Courtesy Card at the [Miller Nichols Library Access Services Desk](http://library.umkc.edu/millennium/main_search/main_search.html). Linda Hall Library is open to the public during the following hours:
Monday 9:00 am - 8:30 pm  
Tuesday-Friday 9:00 am - 5:00 pm  
Saturday 10:00 am - 4:00 pm  

Other Research Libraries

Other special research libraries in the metropolitan area include:

- Harry S. Truman Presidential Library and Museum in nearby Independence
- 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:

- Johnson County (Kansas) Public Library
- Kansas City (Kansas) Public Library
- Kansas City (Missouri) Public Library
- Mid-Continent (Missouri) Public Library

Arts and Sciences, College of

COLLEGE OF ARTS AND SCIENCES

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

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

Dean:  
Karen S. Vorst  
Associate Deans:  
Thomas C. Sandreczki  
Thomas Stroik  
Charles J. Wurrey

- General Information
  - Statement of Purpose
  - Advising System
  - The Superior Student
  - Arts and Sciences Student Council
  - Study Abroad Programs

- General College Undergraduate Requirements, Regulations and Information
  - Degree Program Major
    - Double Major
    - Combined and Dual Degree Programs
    - Second Bachelor's Degree
    - Minor Program
  - Exception
  - Graduation Procedure
  - Interdisciplinary Cluster Courses
  - Pre-Professional Programs
  - Professional School Credit
  - Registration Approvals
  - Repeated Courses
  - Residence Requirements
  - Writing Intensive Requirement
  - Written English Proficiency Test (WEPT)

- Requirements for Bachelor's Degrees
  - Differences between B.A. and B.S. Degrees
  - Degree Program Major
  - Major and Minor Requirement
  - General Education Requirement
  - General Education Requirements for Student Transfers

- Courses
  - Arts and Sciences Courses
  - Physical Science
  - Social Science
  - World Literature

- Departments and Programs
  - American Studies
  - Architecture, Urban Planning and Design
  - Art and Art History
  - Chemistry
  - Classical and Ancient Studies
  - Communication Studies
  - Criminal Justice and Criminology
  - Economics
  - English
  - Environmental Studies
  - Foreign Languages
  - Geosciences
  - History
  - Honors Program
  - Hospitality Studies
  - Interdisciplinary Minors and Certificate Programs
    - Black Studies
    - Family Studies
    - Gerontology
    - Healing and Humanities
STATEMENT OF PURPOSE

The primary academic missions of the College of Arts and Sciences are teaching, research and service. Through these functions, the College serves the community, the state and society at large. The research and scholarship of the College's faculty not only expand the body of knowledge generally, but also enrich and enhance its teaching and instructional programs.

Most departments of the College offer both undergraduate and graduate study. The College enables students to develop the creative, analytical and communication skills which sustain a lifelong educational process. In addition to serving its own students, the College provides instruction in the liberal arts and sciences for students in the UMKC professional schools. Through its continuing education division and certificate programs, the College also serves individuals and groups in the community.

The general degree requirements designated by the College give students a breadth of knowledge, enabling them to understand and appreciate the many facets of human experience, to make meaningful relationships between the various fields of knowledge, and to increase their understanding of themselves, their interests and special abilities. The general requirements and introductory courses allow for maximum freedom in selection of a major field of study and provide the basic knowledge for that particular field or for the choice of a bachelor of liberal arts degree with no major.

Work in the major field of study provides students with a comprehensive and systematic introduction to a field of scholarship and prepares them to function in the professional fields of their choice. Should a student choose to go beyond the baccalaureate degree, the major provides a solid basis for graduate study. The objective of the total academic program of the College is to engage students in study that will enable them to work competently in their chosen fields or pursue graduate work, while at the same time developing a breadth of knowledge in the arts and sciences. In that way, students can understand their specializations in the larger context of the intellectual and social life of the community.

ADVISING SYSTEM

Our Vision:
Guiding, supporting, and inspiring students to achieve academic excellence

Our Mission:
The mission of the UMKC College of Arts and Sciences Academic Advising Office is to guide students toward academic success in higher education.

Advisers within the College are directly responsible for advising current and prospective Arts and Sciences students on general education requirements and how to apply them to their degree program. Advisers assist students with selecting majors, monitoring academic progression, and fulfilling graduation requirements while educating them on campus resources, university policies and procedures, and options for graduate or professional schools. Advisers are role models who teach students how to navigate through the educational journey encouraging students to actively engage themselves in their education. The Academic Advising Office creates an atmosphere promoting autonomous life-long learning where students accept responsibility and ownership for their personal academic progression, degree completion, and goal achievement.

Advisers within the College are committed to serve as a bridge among students, faculty, and staff. The Academic Advising Office provides training and development for professional and faculty advisers to ensure they are effectively meeting the needs of students. Advisers support the College’s commitment to educate students in the arts and sciences providing them with a breadth of knowledge valuable to the intellectual and social community. Advising allows for the promotion of understanding of these general education goals which play a key role in the development of students becoming productive contributors to society. Due to the unique relationship between advisers and students, advisers play an integral role in recruitment, retention, and student success for the College of Arts and Sciences and UMKC as a whole.

As students progress through their higher education journey at UMKC, the Academic Advising Office fosters and encourages students toward achieving academic success.

Faculty and staff advisers:

- Assist students in choosing majors and planning their academic programs.
- Inform students about the general education requirements of the College and relate them to their major requirements.
- Advise students on class selection and registration.
- Offer advice on educational and career goal setting.
- Assist students in locating support services on campus.
- Perform degree audits and graduation status checks.
- Connect students with faculty on campus.
- Review academic policies and procedures with students.
- Help students with other related issues and problems of an academic nature.

Academic advising responsibilities are distributed among faculty advisers and professional
advisers in the College of Arts and Sciences Academic Advising Office in the following manner:

- **Undergraduate and graduate faculty advisers** in each department or program:
  - Advise students in their major field of study.
  - Advise students about departmental student organizations as well as internship or undergraduate research opportunities within the department.
  - Advise students concerning graduate study requirements.

- **Professional and graduate-student advisers** in the Arts and Sciences Academic Advising Office:
  - Advise bachelor of liberal arts students, including students in the Program for Adult College Education (PACE).
  - Advise students who have not yet declared a major or are on probation.
  - Help all undergraduates with special requests and problems.
  - Evaluate transfer courses.
  - Conduct degree audits prior to graduation on all bachelor's degree-seeking students.

While academic advising is not required for all students, it is recommended that students seek academic advising each semester to avoid problems later. Certain undergraduate majors do require academic advising each semester. Students required to secure an adviser's approval and release before enrolling include:

- All freshmen.
- General studies and undeclared students.
- Probationary students.
- Students requesting overloads or credit/no credit option.
- Undergraduate majors in art, chemistry, physics and theater.
- Graduate majors in chemistry, English, geosciences, sociology, and theatre.

When the next semester's course schedule is published on the UMKC Web site, students should contact their academic adviser. Students who promptly seek academic advising have a better chance of securing their first choice of courses and times. While the Arts and Sciences Advising Office sees students on an appointment as well as walk-in basis, most faculty advisers require an appointment.

**Additional Resources**

Freshmen and transfer students are encouraged to enroll in Arts & Sciences 100. This course focuses on providing students with information and skills that will help them choose a major and develop numerous strategies for academic success. The Career Services Center provides workshops for students at all levels on decision making and career connections with liberal arts majors. Student paraprofessionals offer opportunities for individual counseling as well as group sessions concerning choosing majors, finding internships and employment.

**THE SUPERIOR STUDENT**
The College offers superior students various means to enhance or accelerate their academic programs.

**Dual Credit High School/College Program (HSCP)**

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

**Credit by Examination**

Students may gain credit by any or all of the four methods listed below:

- International Baccalaureate (IB)
- Advanced Placement (AP)
- College Level Examination Program (CLEP)
- Departmental Exam

See the General Undergraduate Academic Regulations and Information section of this catalog for additional information.

**Fellowships and Awards**

The Center for International Academic Programs (CIAP) assists students who want to apply for major fellowships that support continued undergraduate study and graduate school. The CIAP Web site identifies an extensive list of these fellowships for both national and international study, including, but not limited to the Truman, Goldwater, Udall, Fulbright, Rhodes, Marshall, Jack Kent Cooke, NSEP Boren, and Rotary. These are highly competitive awards that demand careful planning and a commitment of time and effort. All fellowships require applicants to have a high GPA. In addition, typical eligibility criteria include a record of community service, evidence of undergraduate research or original work, strong faculty references, and a commitment to future academic or public service. A number of the fellowships require an on-campus review and nomination before a candidate can move forward to the national competition. Most of these fellowships provide substantial financial support as well as opportunities for travel and specialized seminars with fellow grantees. For additional information please call (816) 235-5759 or visit [http://www.umkc.edu/international](http://www.umkc.edu/international).

**Honors Program**

Details of the Honors Program can be found in the Honors Program section of the College’s portion of this catalog.

**Independent Study**

The opportunity to undertake independent study is offered by many departments in the College to students who qualify. Generally, the student receives the individual attention of a professor in the chosen field of study and completes a project that may involve any topic considered appropriate by that professor to the academic needs of the student. Typical kinds of independent study include: special reading topics, creative work in the humanities, research projects, performances in the arts or fieldwork experiences.

**Undergraduate Research**

Undergraduate research opportunities are available in many disciplines within the College. Interested students should speak with faculty members in their major department. When selecting a faculty mentor for undergraduate research, students should consider their own research or creative project ideas, courses they have taken, as well as faculty research interests.

**ARTS AND SCIENCES STUDENT COUNCIL**

The council aims to provide an interdisciplinary body in which Arts and Sciences students can provide input on decisions and policies of the College. The council works to enhance student-faculty interaction and communication; allocate its authorized budget; and ensure that Arts and Sciences students’ needs, desires and attitudes are correctly represented to the administration.

**STUDY ABROAD PROGRAMS**

**Center for International Academic Programs**

5325 Rockhill Road
(816) 235-5759
[http://www.umkc.edu/international](http://www.umkc.edu/international)

In collaboration with the Center for International Academic Programs, the College helps make available to its students a variety of study abroad programs that provide an exciting way to add a global dimension to their UMKC education through exploring and sharing the cultures of other countries.

Study abroad programs are available for a summer, semester or academic year. Students can earn credit towards their degree, and with careful planning, they should lose no time toward graduation. Study abroad is affordable since financial aid and scholarships are applicable to many programs, and other grants and scholarships are available specifically for study abroad.

The exchange university consortium, Mid-American Universities International, InterFuture, foreign exchanges offered through the Department of Foreign Languages and Literatures, and the Missouri-London program are among the many program choices available. Among the possible destinations are:

- Argentina
- Australia
- Austria
- Belgium
- Chile
- Costa Rica
- Czech Republic
- Denmark
- England
- Finland
- France
- Germany
- Greece
- Iceland
- Ireland
- Italy
- Korea
- Lithuania
- Malta
- Mexico
- Netherlands
- New Zealand
- Norway
- Portugal
- Scotland
- Slovenia
- South Africa
- Spain
- Sweden
- Switzerland
- Ukraine
- United Kingdom
- United States
- Venezuela
- Vietnam
- Zambia
- Zimbabwe

For more information regarding study abroad and related scholarships, please visit [http://www.umkc.edu/international](http://www.umkc.edu/international). 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
**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 DOUBLE DEGREE PROGRAMS**

In coordination with several of the professional schools, the College of Arts and Sciences students may earn combined degrees. Combined degree programs are offered in dentistry, law and medicine. In the combined degree program, 30 credit hours in the professional schools are allowed toward the fulfillment of the baccalaureate degree. All degree requirements of the College must be fulfilled. The professional hours are generally considered upper-level elective (blanket) credit. In this manner, the two degrees are earned concurrently and the student’s program is accelerated considerably. Students are advised to check with the advising offices of the appropriate schools before making their plans.

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

**EARNING A SECOND BACHELOR’S DEGREE**

Students wishing to earn a second bachelor’s degree, whether or not the first was earned at UMKC or another college or university, must complete a minimum of 30 additional hours. Of those 30 additional hours, a minimum of 12 must be taken in the major department. The student must also fulfill any additional general education requirements and major requirements in effect when the student is admitted or readmitted to pursue the second bachelor’s degree.

**MINOR PROGRAM**

An academic minor may be taken in many departments in the College by students enrolled in a B.A., B.S., or the B.L.A. degree program. The academic minor is optional and must be declared as late as the beginning of the student’s senior year.

A minimum of 18 hours is required in the minor area. At least nine of those hours must be upper-division courses. The courses and total number of hours are determined by the department or departments granting the minor. A minimum of nine hours for the minor must be earned at UMKC.

A student interested in a minor should consult a departmental adviser. Minors offered in the College include the following: anthropology; art history; studio art; black studies; chemistry; classical and ancient studies; communication studies; criminal justice and criminology; economics; English writing; English language and literature; environmental studies; family studies; film studies; French; geography; geology; German; gerontology; history; healing and the humanities; Judaic studies; mathematics; philosophy; physics; political science; sociology; Spanish; theater; and women’s and gender studies.

**EXCEPTIONS**

Exceptions to academic regulations must be approved by the Academic Standards Committee of the College of Arts and Sciences. To seek exceptions, students must file a "Petition for Exception" form in the Arts and Sciences Advising Office, 9 Scofield Hall.

**GRADUATION PROCEDURE**

After completion of 90 credit hours, students should file an "Application for Graduation" form in the Arts and Sciences Academic Advising Office, Scofield 9. After the application is filed, a review of the student’s transcript is prepared, and the student is contacted through UMKC student e-mail to come to the Advising Office for an audit of the general education requirements. During this degree audit process, the following are checked:

- The student's transcript is compared to the general education requirements. All remaining general education requirements are outlined and discussed.
- The student's information is reviewed to insure all majors and minors, as appropriate, have been declared.
- The student’s total hours, junior/senior level hours, residence requirements, the minimum major and minor hours, and grade-point average are reviewed.

After the general education portion of the degree audit is complete, the student is given a major degree audit form and a copy of his/her transcript to take to the major adviser for completion. When the major portion of the degree audit has been completed, the student is responsible for returning it to the Arts and Sciences Advising Office. This process is repeated for any additional majors and/or minors.

There are several other important components of the graduation process that the student is solely responsible for completing:

- All students are required to take the MAPP, administered by the Assessment Office.
- Students with majors must also check with their department to see if a Major Field Exam is required.
- Students should have their degree audit updated every semester to make sure they are still making progress towards graduating during the semester for which they have applied.
- Students are responsible for making sure their address and telephone numbers are correct in the student information system. This should be checked each semester.
- Students must check their UMKC e-mail account regularly for important and relevant graduation and other information.
- Any incomplete grade on a student’s transcript must be completed and recorded in the Registrar’s Office by the end of the semester in which he/she is graduating.
- Any missing transcripts must be received by the Office of Admissions by the end of the semester in which a student is graduating.

Reapplying for Graduation

If a student does not graduate in the semester for which he/she has applied, he/she must reapply for graduation in the Arts and Sciences Advising Office. The College cannot extend a student's application to the next semester without written notification from the student.

**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 through the course.

The following is a partial list of cluster courses now available. There are no prerequisites for any of these courses. See entries under the relevant departments for more detailed explanations of the contents of each course.

- **Aesthetic Issues in the Arts**
  - Art History 300CJ
  - Conservatory of Music 497CJ
  - English 300CJ
  - Philosophy 490CJ

- **African and African American Women and Creativity**
  - Art 300CJ
  - Arts and Sciences 300CF
  - Sociology 303CJ

- **The African Diaspora in the Arts and Culture**

- **Count toward fulfillment of the humanities requirement for the B.A., B.S., and B.A./M.D. degrees.**
- **Count, if they are numbered 300 or above, toward the 36 junior/senior hours of electives required for graduation.**
- **Count toward fulfillment of the departmental requirements for majors in the field in which the course is taken.**
- **Can be taken for graduate credit if numbered 300 or above, with departmental approval.**

The following is a partial list of cluster courses now available. There are no prerequisites for any of these courses. See entries under the relevant departments for more detailed explanations of the contents of each course.
American Social Film: Silver Screen and the American Dream
American Studies 300CD
Communication Studies 400CD

Ancient World/Cinema
Classics 300CY
English 300CY
History 400CY/500CY

Archaeology of Ancient Disasters
Classics 300CZ
Geology 326CZ

Biological and Ethical Issues in Aging
Natural Science 433PC
Philosophy 491PC

Body Images in Medicine and the Arts
Arts and Sciences 304CM
Art 300CM
Communication Studies 400C

Clio and the Other Muses: History and Culture in 5th Century Athens
Classics 300CS
English 300CS
History 400CS

Courts and Culture in the High Middle Ages
English 400CF
Foreign Language 400CF
History 400CF/500CF

Culture, Kultur, Civilisation: Identity Formation in the Middle Class
Foreign Language 400CI
History 400CI

Environmental Sustainability
Environmental Science 332CZ

Healing and the Arts
Art 300CH
Arts and Sciences 490CH
Conservatory 300CH
Theatre 300CH

History of Russian Culture
Foreign Language 330CS
History 400CS/500CS
Political Science 330CS
Theatre 330CS

Images of the Human Body in the Renaissance
Art History 330CA
English 400CA/591CA
History 400CA/500CA

Introduction to Women's Studies
American Studies 400CW
Anthropology 300CL/380CL
History 400CW/500CW
Sociology 303CW/380CL

Issues in Death and Dying
English 400CO
Philosophy 400CO
Sociology 303CO

Mexico, Central America and the Human Condition
Economics 330CM
Foreign Language 300CM
History 330CM/500CM

Nazi Occupied Europe & the Holocaust
Foreign Language 400CM
History 400CM

The Practice and Study of Creativity
Conservatory of Music 497CH
Theatre 401CH

Radical Changes Since 1945
Art History 400CE
Communication Studies 403CE
English 300CE
History 400CE/500CE

Religion in America
History 400CT
Sociology 303CP

Roman Revolution: History and Culture from Graccii to Augustus
Classics 300CR
English 300CR

Women in the Ancient World
Classics 300CB
Students should also look for other specially designated cluster course offerings under one of the following course numbers: Art 300, Economics 300CS, English 300, Philosophy 400, Political Science 300, Psychology 300CS, Sociology 300, and Theatre 300CS.

**PRE-PROFESSIONAL PROGRAMS**

Prerequisites for advanced professional programs in law and the health professions can be satisfied as a part of any degree program in the College of Arts and Sciences.

**Pre-Medicine, Pre-Dentistry and Pre-Health Advising:**

Please see the additional catalog section on Pre-Medicine/Pre-Health for more detailed information on pre-medicine, pre-dentistry and pre-health.

Program Director:

Cary Lyon
Scofield Hall, Room 9
711 East 51st Street
(816) 235-5874
lyonc@umkc.edu

Faculty Director:

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

Derek Moorhead
Scofield Hall, Room 23
711 East 51st Street
(816) 235-6094
moorehd@umkc.edu

Faculty Director:

David N. Atkinson, Curators' Professor of Political Science
atkinsond@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, Directed Readings, Individual Research or any other courses specified by a department.

All students in the College are also subject to any special signatures required by other academic units at UMKC.

**REPEATED COURSES**

If a course is repeated at one of the four UM campuses, the hours and grade points of both the original and repeated courses are used in computing the grade-point average. Only the earned hours from the last repeated enrollment will apply toward degree requirements or total hours required for graduation.

**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 fall and spring semester and once in the summer; the dates of the test appear regularly on the Academic Calendar in the Schedule of Classes.

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

**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.
- The Bachelor of Science degree does not require any foreign language.

Students may earn a Bachelor of Science degree in the following disciplines:

- Chemistry
- Environmental Studies
- Geography
- Geology
- Mathematics and Statistics
- Physics

In all instances, students should contact the appropriate department concerning their 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.

**Hour and GPA Requirement**
A minimum of 120 hours is required for graduation. Of those hours, 36 must be at the 300-400 level. A minimum cumulative grade-point average of 2.0 is required as well as a 2.0 in the major. (Some majors have additional GPA requirements. Students should consult the appropriate section of this catalog for their major.)

**General Requirements**

### A. Communication (12 credit hours)

Every student must complete the following:

1. First-Year Writing course. 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. Sophomore-level Writing Intensive course. English 225 or Humanities 205P.
3. The UMKC Written English Proficiency Test (WEPT). The WEPT is a prerequisite for all writing-intensive courses and should be taken after a student has completed English 225 and 45 credit hours. The WEPT is also a graduation requirement for all students. Those who fail the WEPT twice must take English 299; this course, which does not count towards the degree, will serve as the WEPT for students who earn a C- or better in the course.
4. Junior/Senior-level Writing Intensive (WI) course. Upper-level (300/400-level) Writing Intensive courses are designated with WI or PW following the course number. Writing Intensive courses should be completed during the junior or senior year and after the completion of the three requirements above.
5. One course in which oral argumentation is a major focus. This requirement is met by the courses:
   - Communication Studies 110, 211, 213, 254P, 311, 343
   - Theater 121 or
   - Humanities 204PW

### B. Mathematical, Symbolic and Logical Reasoning (6 credit hours minimum)

Every student must complete the following:

1. Mathematics 110 or higher (except Math 125), or demonstrate competency equivalent to four units (years) of acceptable high school mathematics, beginning with Algebra I or higher.
2. One course requiring extensive use of mathematical, symbolic or logical reasoning. This requirement is met by the courses:
   - Any mathematics course at or above the 200 level (under the curricular designation of Mathematics or Statistics and offered in the mathematics department); or
   - Philosophy 222. (Note: Philosophy 222 may be chosen here only if it has not been chosen as the philosophy requirement below.)

### C. Foreign Language and Culture (13 credit hours)

Every student must complete the following:

1. Three semesters of the same foreign language (110, 120 and 211) are required for all B.A. degrees (but not for B.S. degrees, as of Spring 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.
2. One course that focuses on cultural perspectives of an interdependent global environment. This requirement is met by the courses:
   - Art 315
   - History 201, 202, 205, 206
   - Geography 205, 207
   - Sociology/Anthropology 103
   - Political Science 220
   - Economics 417 or
   - Urban Planning and Design 260

### D. Computer and Information Technology (3 credit hours)

Every student must demonstrate competency 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 110
- Arts 190
- Computer Science 105, 101, 105P or
- A computer application course in the student's major/program.

### E. Literature and Philosophy (6 credit hours)

...
Every student must complete the following:

1. One of the following literature courses
   - Classics 210, 319
   - Humanities 309
   - World Literature 210, 220
   - French 201, 301, 304
   - German 301
   - Spanish 201, 303, 304, 377, 374, 401 or 402

2. One of the following courses
   - Philosophy 210
   - Philosophy 271
   - Philosophy 222 (Note: Philosophy 222 may be chosen here only if it has not been chosen as the symbolic and logical reasoning requirement above) or
   - Humanities 100

F. Distribution Requirements for General Education

1. Social and Behavioral Sciences (three courses, 9 hours). The nine hours chosen to complete the social and behavioral sciences distribution requirement in (a.) and (b.) below must come from at least two different departments.
   a. Constitution Requirement:
      Every student must fulfill the Missouri state requirement to take a course covering the United States Constitution and the Missouri State Constitution before graduation. Courses that satisfy this requirement are
      - History 101, 102, 360R (American History),
      - Political Science 210 (American Government), 400P or
      - Social Science 100P.
   b. Distribution Electives:
      Every student must also complete two courses from the social and behavioral sciences. Students may select courses from the following departments/areas:
      - American Studies
      - Anthropology
      - Criminal Justice and Criminology
      - Economics
      - Geography (regional or cultural, which includes 105, 200, 202, 210, 305, 309, 311, 329, 332, 340, 341, 342, 350, 351, 352, 355, 403, 405, 410, 415, 435, 437, 460, 469 or 496 only)
      - History
      - Political Science
      - Psychology
      - Sociology
      - 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 150, 203, 215, 214, 217, 315, 325, 326, 360, 398, 401, 403, 404, 406, 426, 430, 435, 442, 444, 448 or 490)
   - Geology
   - Natural Science
   - Physical Science
   - Physics
   - 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, or any upper-level (300/400) course in art history
      - Environmental Design 110
      - Theater 130, 210
      - 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
      - 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 College’s previous catalog subsection on "Interdisciplinary Cluster Courses" for additional information and a list of approved cluster courses.

G. Capstone Course

All students in a major must complete a course designated as a capstone course in their major.

H. Additional Requirements and Restrictions

- A minimum of 120 total credit hours is required for graduation.
- At least 36 credit hours must be at the 300-400 level.
- A 2.0 overall GPA is required for graduation. However, the required major GPA may be higher, as determined by each department individually.
- A maximum of 3 hours of one-credit activity courses in physical education may be applied toward the 120 minimum

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 Scofield Hall.

ARTS AND SCIENCES COURSES

• 100 Methodologies In Liberal Arts & Sciences: Theories & Application (3)
• 103A Critical Thinking In The Arts And Humanities (3)
• 103B Critical Thinking In The Social Sciences (3)
• 103C Critical Thinking In The Natural Sciences And Mathematics (3)
• 110 Successful Research: Making Sense Of The World Of Information (1)
• 160 Wine And Civilization (2)
• 200 British Life And Culture (3)
• 205 Contemporary Europe (3-6)
• 206 Contemporary Asia (3-6)
• 207 Contemporary Latin America (3-6)
• 208 Contemporary World Cultures (3)
• 210 Cross-Cultural Interaction: Experience & Understanding (3)
• 245 Analysis Of Medical Terminology (3)
• 305C Cluster Course: African/African American Women And Creativity (3)
• 305CH Cluster Course: Body Images In Medicine And The Arts (3)
• 309 Ethics In America: The View From The Heartland (3)
• 310 Cross-Cultural Interaction II: Social Relations (3)
• 350 Introduction To African American Studies (3)
• 355 Special Topics (1-4)
• 355A Special Topics (1-4)
• 355B Special Topics (1-4)
• 400M Special Readings/Topics (1-6)
• 400N Special Readings/Topics (1-6)
• 400O Special Readings/Topics (1-6)
• 400P Special Readings/Topics (1-6)
• 400Q Special Readings/Topics (1-6)
• 400R Special Readings/Topics (1-6)
• 400S Special Readings/Topics (1-6)
• 400T Special Readings/Topics (1-6)
• 400U Special Readings/Topics (1-6)
• 400V Special Readings/Topics (1-6)
• 400W Special Readings/Topics (1-6)
• 400X Special Readings/Topics (1-6)
• 400Y Special Readings/Topics (1-6)
• 400Z Special Readings/Topics (1-6)
• 401 Special Readings/Topics (1-6)
• 402 Special Readings/Topics (1-6)
• 403 Special Readings/Topics (1-6)
• 404 Special Readings/Topics (1-6)
• 405 Special Readings/Topics (1-6)
• 406 Special Readings/Topics (1-6)
• 407 Special Readings/Topics (1-6)
• 408 Special Readings/Topics (1-6)
• 409 Special Readings/Topics (1-6)
• 410 Special Readings/Topics (1-6)
• 410P Special Readings/Topics (1-6)
• 410PF Special Readings/Topics (1-6)
• 435P Special Readings/Topics (1-6)
• 435PF Special Readings/Topics (1-6)
• 490F Special Topics (1-3)
• 490L Special Topics (1-3)
• 490P Special Topics (1-3)
• 490SA Special Topics (1-3)
• 490W Special Topics (1-3)
• 491 International Internship (1-9)
• 492 Field Practicum In Aging (3-8)

PHYSICAL SCIENCE COURSES

• 110 Foundations Of Physical Sciences I (4)
• 110L Foundations Of Physical Sciences, Laboratory I (1)
• 410 Selected Topics In Contemporary Science (3)
• 410P Selected Topics In Contemporary Science (3)
• 410PF Selected Topics In Contemporary Science (3)
• 435P Selected Topics In The History Of Science (3)

SOCIAL SCIENCE COURSES

• 210 Foundations Of Social Science I (3)

WORLD LITERATURE COURSES

• 210 Foundations Of World Literature I (3)

American Studies

AMERICAN STUDIES

Haag Hall, Room 204G
5120 Rockhill Road
(816) 235-1137
am-st@umkc.edu
http://cas.umkc.edu/ams

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

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

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

STUDENT LEARNING OUTCOMES

Students graduating with a baccalaureate degree in American Studies will:

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

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

Architecture, Urban Planning and Design

DEPARTMENT OF ARCHITECTURE, URBAN PLANNING AND DESIGN

Epperson House, room 213
5200 Cherry Street
(816) 235-1725
epperson@umkc.edu
http://cas.umkc.edu/AUPD

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

Department Chair:
Joy D. Swallow, M.Arch., A.I.A.

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

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

Visiting Professor:
Theodore H. Seigson, B.Arch., F.A.I.A.

Lecturers:

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

Administrative Assistant:
Stella Szmytanski

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

DEPARTMENT DESCRIPTION

The Department of Architecture, Urban Planning and Design has two degree tracks to choose from.

One degree track is a B.A. in Urban Planning and Design. This degree program is a four-year degree and can be completed at UMKC in its entirety.

The second track leads to a degree in one of the following professional areas: architecture, landscape architecture and interior architecture. This track is a two-year program, offered in conjunction with Kansas State University’s College of Architecture, Planning and Design.

UMKC is an urban university, and architecture, urban planning and design is consistent with our vision for our community and region. Kansas City is a great urban laboratory. Few American cities have the planning and design tradition of Kansas City. We think this sets us apart, and places the students within a professional community with unmatched resources, whether one is studying architecture, interior architecture, landscape architecture or urban planning and design.

As the United States population continues to grow and is concentrated in metropolitan areas, urban planning and design is becoming a societal imperative. Planners address diverse public issues relevant to metropolitan and regional planning, economic development, infrastructure, transportation, and land use.
Financial Aid
Many scholarships and student financial aid alternatives are available. Every year approximately 80 percent of our students have some form of scholarship. For students who qualify, UMKC can be a great resource for scholarship assistance. Contact the UMKC Financial Aid Office (phone: (816) 235-1154) for scholarship information.

Admission and Advising
Admission to the Department of Architecture, Urban Planning and Design is selective. Seats are limited to 30 incoming students in the Architectural Studies curriculum. Interested students can call or e-mail the department and schedule an appointment for a visit with one of our advisers. On-campus location, contact information and mailing address appear at the beginning of this section.

Student Activities
The department supports two student organizations, AIAS and PDS, on the UMKC Campus.

The American Institute of Architecture Students (AIAS) is a national student organization for students studying architecture and related fields. Many times the professionals serve as mentors to students on various capacities. Every year students attend national and regional AIAS meetings around the country.

Planning and Design Students (PDS) is a student organization for students studying Urban Planning and Design. The students interact with the local APA (American Planning Association) chapter in a variety of activities. A group of students attend the national conventions that are held in various locations around the country every year.

The American Public Works Association (APWA) is a student organization that consists of a multi-disciplinary group of students (i.e. Engineering, Geosciences, Public Administration) from across the campus. The APWA’s national office is in Kansas City, and UMKC is the first campus to initiate an APWA student group. This organization allows students to interact with private industry, as well as governmental agency professionals.

Open House
The department hosts an open house on the Friday before Thanksgiving every year. An exhibition of student work is on display and representatives from the scholarship office also are on hand to answer questions. Check the AUPD Web site for exact dates for this event. Information appears at the beginning of this section.

Architectural Studies
Architectural Studies is a two-year cooperative program with Kansas State University that began in 1987. The accredited curriculum at the K-State College of Architecture Planning and Design is offered at UMKC for the first two years of study. After successfully completing the coursework at UMKC, students are eligible for entry to Kansas State University, College of Architecture Planning and Design. There, students can study architecture, interior architecture and landscape architecture.

Architectural Accreditation
The Kansas State University College of Architecture, Planning and Design (with which the UMKC Architectural Studies Program collaboratively participates) is accredited by the National Architectural Accrediting Board (NAAB).

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes two types of degrees: the bachelor of architecture and the master of architecture.

A program may be granted a five-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards. Master’s degree programs may consist of a pre-professional undergraduate degree and professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

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

Urban Planning and Design
The Urban Planning and Design program provides an innovative curriculum that incorporates a combination of broad liberal arts courses, with a core of professional planning classes, coupled with a series of design studios. The design studio represents a forum where students employ a creative process, infused with knowledge gained from supporting courses, to generate holistic urban planning and design solutions. Urban design projects will engage professionals, civic officials, neighborhood leaders and government officials into an important dialogue.

Urban Planning and Design Courses
Refer to the course listing at the end of this section for a list of courses.

Student Learning Outcomes
Bachelor of Arts in Urban Planning and Design
Students graduating with a baccalaureate degree in planning should have significant exposure to each of the basic subject areas of knowledge, skills and values.

Knowledge of
- Structure and functions of urban settlements.
- History and theory of planning processes and practices.
- Administrative, legal and political aspects of plan-making and policy implementation.
- Familiarity with at least one area of specialized knowledge of a particular subject or set of issues.

Skill in
- Problem formulation, research skills and data gathering.
- Quantitative analysis and computers.
- Written, oral and graphic communication.
- Collaborative problem solving, plan-making and program design.
- Synthesis and application of knowledge to practice.

Value in
- Issues of equity, social justice, economic welfare and efficiency in the use of resources.
- The role of government and citizen participation in a democratic society and the balancing of individual and collective rights and interests.
- Respect for diversity of views and ideologies.
- The conservation of natural resources and of the significant social and cultural heritages embedded in the built environment.
- The ethics of professional practice and behavior, including the relationship to clients and the public, and the role of citizens in democratic participation.

Art and Art History
The Department of Art and Art History serves a variety of students, ranging from the non-major to the professionally oriented. The department offers programs leading to the bachelor of arts degree in art, art history and studio art. The master of arts is offered in art history and studio art. The department also participates in the Interdisciplinary Ph.D. program.

In the undergraduate program, art history serves as humanities electives for non-majors, as part of the program for studio majors and as a major field for students who wish 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.

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.

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.

Student Learning Outcomes

- Art History (ART-HIST) Courses
- Art and Art History (ART) Courses
- Bachelor of Arts: Art History
- Bachelor of Arts: Studio Art
- Bachelor of Arts: Art
**Bachelor of Arts in Art History**

1. Students graduating with a baccalaureate degree in Art History will:
   - Have a basic knowledge of both Western and Non-Western art history.
   - Be aware of the latest advances in adapting technology for the creation of works of art, including computer skills and digital photography.
2. Students graduating with a baccalaureate degree in Art History will be prepared for entry into a graduate program, or the job market.

**Bachelor of Arts in Studio Art**

1. Students graduating with a baccalaureate degree in Studio Art will:
   - Have the basic skills for the practice of art in one or more specialized disciplines.
2. Students graduating with a baccalaureate degree in Studio Art will be prepared for entry into a professional school, a graduate program or the job market.

**Bachelor of Arts in Art**

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

---

**BACHELOR OF ARTS: ART HISTORY**

**PROGRAM DESCRIPTION**

Art History Curriculum

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

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

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

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

Seminars are titled generically by major periods or cultural divisions in the history of art (e.g. Baroque art, 19th-century art). When a seminar is offered, a specific topic will be announced and listed in the schedule of classes. These are considered advanced-level courses and are thus assigned 400- and 500-level numbers. Enrollment will be granted by permission of the student's departmental adviser on the basis of previous study in art history or cognate fields. Undergraduate participation in a graduate-level seminar is feasible for selected students through enrollment in a suitably titled, independent-study course.

A small group of independent-study courses, titled generically by major periods or cultural divisions in the history of art, are assigned 400-level numbers. Enrollment in these courses is granted only by the instructor who will supervise the study. (These students are carried as an overload by the instructor except in special cases.) Graduate credit is possible only when a student is admitted to graduate study.

Cluster courses are taught through the program of integrated studies in the humanities. These are interdisciplinary courses offered in conjunction with one or more similar courses in cognate disciplines, but in our case, with an emphasis on the knowledge base appropriate to the history of art.

**Degree Requirements**

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

Grade-point Average Requirements

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

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

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

The department also participates in a combined major in art history and history. For students majoring in either department, this program permits the option of a combined program of integrated studies in both subjects. The combined program is especially intended for the superior student who wishes to explore in-depth the integrated effects of political, religious, economic and artistic developments of selected periods in Western European and American history.

Enrollment in the combined program will be plotted by the coordinators of the program in both departments working individually with each student. A detailed set of requirements is available on request, but the combined major requires 39 hours with 18 specified hours in the primary department; nine specified hours in the secondary department; nine restricted elective hours; and a three-hour capstone course (directed studies) in which a student pursues a senior project related to a problem of study common to history and art history and directed by faculty members in both disciplines.

Minor in Art History

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

---

**BACHELOR OF ARTS: STUDIO ART**

**Studio Art Curriculum**

The offerings in studio are divided into four general classifications:

- Foundation studio (100-200)
- Intermediate studio (300)
- Advanced studio (400)
- Graduate studio (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 and 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
ART AND ART HISTORY (ART) COURSES

BACHELOR OF ARTS: 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.

Suggested Plan of Study - Studio Art

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

Grade-point Average Requirements

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

Suggested Plan of Study - Studio Art

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

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

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

Teacher Certification in Art

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

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

Degree Requirements

Part One: Studio Art

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

Part Two: Professional Education

Certification as an Art teacher (K-12) in either Kansas or Missouri requires that a student complete specific additional requirements in the School of Education. A separate application for teacher education is required. For further information, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

Grade-point Average Requirements

Art education majors must maintain a 2.5 GPA in studio art courses.

Minor in Studio Art Requirements

A minor in studio art may be earned by completing 21 hours of studio art taken in consultation with a faculty adviser.

BACHELOR OF ARTS: ART

Degree Requirements

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

Grade-point Average Requirements

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

Suggested Plan of Study

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

ART AND ART HISTORY (ART) COURSES

- 100 Topical Studies In Art History (1-3)
- 101 Topical Studies In Studio Art (1-3)
- 101B Topical Studies In Studio Art (1-3)
- 101G Topical Studies In Studio Art (1-3)
- 105 Introduction To Photography (3)
- 110 Introduction To The Visual Arts (3)
- 112 Foundation Drawing (3)
- 114 Introduction To Computer Multimedia (3)
- 116 Computer Animation (3)
- 121 Foundation Design--Two Dimensional (3)
- 131 Foundation Design--Three Dimensional (3)
- 203 Introduction To Typography (3)
- 204 Computer Multimedia I (3)
- 206 Photography I (3)
- 212 Intermediate Drawing (3)
- 221 Introductory Painting (3)
- 224 Introductory Printmaking (3)
- 231 Introductory Sculpture (3)
- 235 Digital Imaging I (3)
- 244 Visual Tools For The Computer (1-3)
- 245 Digital Applications (3)
- 246 Digital Applications (3)
- 253 History Of The Designed Environment I, Ancient And Medieval (3)
- 254 History Of The Designed Environment II, Late Medieval To Modern (3)
- 255 History Of The Designed Environment III, Modern (1750 To Present) (3)
- 300 Interdisciplinary Studies:Cluster Course Offerings I (3)
- 300CA Cluster Course: Images Of The Human Body In The Renaissance (3)
- 300CD Cluster Course: The African Diaspora In The Arts And Culture (3)
- 300CF Cluster Course: African/African American Women And Creativity (3)
- 300CH Cluster Course: Healing And The Arts (3)
- 300CM Cluster Course: Body Images In Medicine And The Arts (3)
• 300CS Cc: Sight And Sound—An Examination Of Perceptual Experience (3)
• 300CW Cc: Women In A Man's World: Gender, Sex & Status In Clsscl Antq (3)
• 301 Survey Of Western Art: I (3)
• 302 Survey Of Western Art II (3)
• 303 Survey Of Western Art III (3)
• 305 Photography II (3)
• 308 Lithography (3)
• 309 Intaglio (3)
• 310 Computer Multimedia II (3)
• 311 Painting I (3)
• 312 Figure Drawing I (3)
• 313 Graphic Design I (3)
• 314 Graphic Design Production (3)
• 315 Art Of African, Oceanic, And New World Cultures (3)
• 319 Asian Art (3)
• 322 Advanced Drawing (3)
• 335A Digital Imaging II (3)
• 353 The Design And Form Of Kansas City (3)
• 403 Advanced Typography (3)
• 404 Computer Multimedia III (3)
• 405 Art In Secondary School (3)
• 406 Advanced Problems In Photography (3)
• 411 Painting II: Oil/Acrylic (3)
• 412 Figure Drawing II (3)
• 413 Graphic Design II (3)
• 415WI Romanticism (3)
• 416WI Later 19Th Century Painting And Sculpture (3)
• 421 Painting III: Oil/Acrylic (3)
• 422 Advanced Drawing II (3)
• 423WI Design Seminar (3)
• 424 Early 20Th Century European Painting And Sculpture (3)
• 426 Twentieth Century Painting (3)
• 427 Twentieth Century Sculpture (3)
• 428 American Architecture And Urbanism (3)
• 429WI American Painting And Sculpture (3)
• 430 Graphic Design III (3)
• 440WI French Art: Renaissance And Baroque (3)
• 441WI Northern Baroque: The Age Of Rubens, Rembrandt And Wren (3)
• 442 Art Of Sub-Saharan Africa (3)
• 443 Pre-Columbian Art (3)
• 445 Northern European Art: 15Th And 16Th Centuries (3)
• 447WI Italian Baroque: The Age Of Caravaggio, Bernini And Borromini (3)
• 448WI Spanish Art: El Greco To Goya (3)
• 449 Art And Architecture In The Age Of Enlightenment (3)
• 450 15Th Century Italian Art And Architecture (3)
• 452 Greek Art And Architecture (3)
• 453 Roman Art And Architecture (3)
• 454 16Th Century Italian Art And Architecture (3)
• 455 History Of Photography (3)
• 456 The Painting And Sculpture Of China (3)
• 457 The Painting And Sculpture Of Japan (3)
• 458 Ceramic Art Of China And Japan (3)
• 459 Architecture And Gardens Of China And Japan (3)
• 460 Oceanic Arts (3)
• 473 Visual Arts Administration (3)
• 480 Art Since 1945 (3)
• 482 Scope & Methods Of Art History (3)
• 485 Technical Colloquium (3)
• 486 Special Topics In Art Education (2-4)
• 495 Technical Studies In Art (2-4)
• 495A Technical Studies In Art: Papermaking (2-4)
• 497A Special Studies In Medieval/Renaissance Art (1-6)
• 497B Special Studies In Baroque/Rococo Art (1-6)
• 497C Special Studies In 19Th- And 20Th-Century Art (1-6)
• 497D Special Studies In American Art And Architecture (1-6)
• 497E Special Studies In Art Museum (1-6)
• 497F Special Topics In Asian Art (1-6)
• 497H Sp St In The Art Of African, Oceanic, And New World Cultures (1-6)
• 497I Special Studies In Ancient Art (1-6)
• 497J Special Studies In Art (1-6)
• 498A Special Problems In Drawing (1-6)
• 498B Special Problems In Painting (1-6)
• 498E Special Problems In Graphic Design (1-6)
• 498F Special Problems In Casting (1-6)
• 498G Special Problems In Construction (1-6)
• 498I Advanced Problems In Lithography (1-6)
• 498J Advanced Problems In Intaglio (1-6)
• 499L Special Problems In Photography (1-6)
• 499M Special Problems In Electronic/Media (1-6)
• 499O Special Problems In Graphic Design Internship (1-6)
• 499Q Special Studies In Art: Internship (1-6)
• 499WI Senior Seminar (3)

**ART HISTORY COURSES**

• 300CI Cluster Course: Aestheticism In The Arts (3)
• 403 Advanced Typography (3)
• 497 Special Studies In Art History: Internship (1-6)
• 497O Special Studies In Art History: Internship (1-6)
• 498 Special Studies In Art: Internship (1-6)

**BACHELOR OF ARTS: ART HISTORY**

**Chemistry**

**DEPARTMENT OF CHEMISTRY**

Spencer Chemistry Building, Room 205
5009 Rockhill Road
(816) 235-2272
Fax: (816) 235-5502
umkc-chemdept@umkc.edu
Mailing Address
University of Missouri-Kansas City
Department of Chemistry
SCB 205
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Kathleen V. Kilway

Professors Emeriti:

Curators' Professors:
Y.C. Jerry Jean (chemistry and physics), James R. Durig, (chemistry and geosciences), Charles J. Wurrey (Curators' Teaching, associate dean, arts and sciences)

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

Associate Professors:
Keith R. Buszek, Peter Groner (director of laboratories), Kathleen V. Kilway (chair, principal undergraduate adviser)

Assistant Professors:
Todor K. Gounev (program director), Ekaterina N. Kadnikova, Nathan A. Oyler, J. David Van Horn, Andrea Drew Gounev (coordinator, organic chemistry laboratories)

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 Department of Chemistry offers two bachelor of science degree programs. Both require a minimum of 43 credit hours of chemistry courses; they are designed for those who want to work in the field of chemistry. The American Chemical Society approved degree is based on the guidelines established by the American Chemical Society (ACS) and specifically requires Organic and Inorganic Synthesis (CHEM 382) and a Biochemistry course (either CHEM 367 or LS BIOCHEM numbered 341 or higher). Many of those receiving the bachelor of science degree have gone on to graduate work, professional schools, and advanced degrees. Others have gone directly into the chemical industry (laboratory assistants).

In contrast, the bachelor of arts degree is more flexible because it requires only a minimum of 26 credit hours of chemistry. The bachelor of arts student is shown a minimum of what chemistry is about. By choosing suitable courses, this degree prepares the individual with the chemical background for work in other areas. Examples include technical librarian, medical technologist, business administration, public health, and sales or advertising in the chemical industry. The majority of students pursuing the bachelor of arts in chemistry do so in preparation for professional schools, such as medicine, dentistry, and pharmacy. The bachelor of arts can also provide a student with a background in chemistry equivalent to that of a bachelor of science, but tailored to the individual’s desires.

Teacher Certification in Chemistry
Certification as a middle school (grades 5-9) or secondary (grades 9-12) chemistry teacher in either Kansas or Missouri requires that a student complete specific requirements in biology, chemistry, environmental science, geology, physics and the School of Education. A separate application for teacher education is required. For further information about the program, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

Admission Requirements
Other than University of Missouri admission requirements, there are no special prerequisites for beginning either the bachelor of arts or the bachelor of science program. High-school chemistry and a good working knowledge of algebra and arithmetic are desirable for entering the bachelor of science program. It should be noted that much of the bachelor of science program, and some of the bachelor of arts program, are highly structured in the order which chemistry courses must be taken. It is assumed that transfer students, Associates degree students, and junior college students should have begun the appropriate course sequence in their previous schools. All students are required to consult with the Chemistry Undergraduate Adviser before their registration at UMKC.

Advising
Those seeking either a bachelor of science or a bachelor of arts degree should see the Chemistry Department’s principal undergraduate adviser or the department chair at the earliest possible time. Students who major in Chemistry must see the Undergraduate Adviser each semester prior to enrolling in courses.

Honors Program
Students with outstanding records of achievement may be eligible to enroll in special honors courses. Such courses are designated by the letter H preceding the course number, or special arrangements can be made with instructors of regular courses. Students enrolled in the special courses should consult with their faculty adviser to arrange for optimal degree planning.

Prerequisites and Corequisites
A minimum grade of C- or higher is required for all prerequisite and corequisite courses for all students taking courses within the Department of Chemistry. In exceptional cases, students may receive written consent from the Chemistry Undergraduate Adviser to waive this requirement. Students must be concurrently enrolled in all corequisite courses. In exceptional cases, students may receive written consent of the Curriculum Committee by obtaining a petition form from the Department to waive this requirement.

Student Learning Outcomes
Bachelor of Science or Bachelor of Arts in Chemistry

1. Students graduating with a baccalaureate degree in chemistry should be proficient in the basic skills of chemistry. They will:
   - Have a functional knowledge of all the basic areas of chemistry including analytical, organic, physical, inorganic and biochemistry.
   - Be able to integrate their knowledge in these areas and use their critical thinking skills in order to become problem solvers.
   - Be proficient in chemistry laboratories, especially with respect to:
     - Following and understanding general laboratory practice guidelines, especially proper laboratory safety.
     - Performing chemical analyses.
     - Performing simple chemical synthesis.
     - Understanding and using modern chemical instrumentation.
   - Be able to articulate clearly scientific information, both in written and oral forms.
   - Be able to use effectively the scientific literature.

2. Students graduating with a baccalaureate degree in chemistry will be prepared for entry into professional schools (e.g., medical, dental, pharmaceutical, or veterinary), graduate programs, or chemical industries.

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 residency requirement for a minor in Chemistry, 6 hours of the 9 hours must be 300-400 level courses.

http://cas.umkc.edu/chem
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 a C- is required for all prerequisite courses.

BACHELOR OF ARTS: CHEMISTRY

Classical and Ancient Studies

CLASSICAL AND ANCIENT STUDIES CONCENTRATION AND MINOR

(816) 235-1305
http://cas.umkc.edu/classics

Faculty Coordinators:
Jeff Rydberg-Cox, James Falls

• Program Description
• Classical and Ancient Studies (CLASSICS) Courses

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 (B.A.) in another discipline.

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

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

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

Course Offerings

Classical and Ancient Studies:
CLASSICS 210 Foundations of World Literature
(also listed as World Literature 210)
CLASSICS 310WI Ancient Philosophy
CLASSICS 318 Bible as Literature
CLASSICS 319 Myth and Literature
CLASSICS 340A Ancient Literature in Translation
CLASSICS 369 Introduction to Prehistoric
and Classical Archaeology
CLASSICS 430 Plato
CLASSICS 431 Aristotle
CLASSICS 467 Myth and Ritual
CLASSICS 469 Archaeology and Biblical History
CLASSICS 470 Ancient Egypt
CLASSICS 471 Ancient Greece
CLASSICS 472 Ancient Rome
CLASSICS 470P Ancient World: The Social History
of the Ancient World
CLASSICS 471P Ancient World: The Political Structure
of the Ancient World
CLASSICS 472P Ancient World: The Cultural and Intellectual
Dimensions of Ancient Civilization
CLASSICS 475WI History of Ancient Israel
CLASSICS 499 Senior Tutorial

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

English:
ENGL 318 Bible as Literature
ENGL 319 Myth and Literature
ENGL 340A Ancient Literature in Translation
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 467 Myth and Ritual
HIST 469 Archaeology and Biblical History
HIST 470 Ancient Egypt
HIST 471 Ancient Greece
HIST 472 Ancient Rome
HIST 470P Ancient World: The Social History
of the Ancient World
HIST 471P Ancient World: The Political Structure
of the Ancient World
HIST 472P Ancient World: The Cultural and Intellectual
Dimensions of Ancient Civilization
HIST 475WI History of Ancient Israel
Philosophy:
PHIL 210 Foundations of Philosophy
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 301 Virgil
LATIN 302 Ovid
LATIN 311 Prose Fiction & Epistolography
LATIN 314 Lyric & Elegiac Poetry
LATIN 490 Advanced Special Readings in Latin

Greek:
GREEK 110 Elementary Greek I
GREEK 120 Elementary Greek II
GREEK 280 Special Readings in Greek I
GREEK 290 Special Readings in Greek II
GREEK 301 Herodotus
GREEK 302 Homer
GREEK 310 Philosophy & Rhetoric
GREEK 311 Drama & Lyric Poetry
GREEK 312 Greek Narrative Prose
GREEK 490 Advanced Special Readings in Greek

Cluster Courses:
CLASSICS 300CY Ancient World in Film
CLASSICS 300CS Clio and the Other Muses: History and Culture in 5th Century Athens
CLASSICS 300CB Women in the Ancient World
CLASSICS 300CR Roman Revolution: History and Culture from the Gracchi to Augustus
CLASSICS 300CZ Archaeology of Ancient Disasters

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

Communication Studies

DEPARTMENT OF COMMUNICATION STUDIES

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

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

Department Chair:
Carol Koehler

Professors Emeriti:
Joan E. Aitken, Gregory Black, Robin M. League

Associate Professor Emeriti:
Larry G. Ehrlich

Professors:
Michael R. Neer, Robert Unger

Associate Professors:
Gregory Guttenko, Carol Koehler (chair), Michael McDonald, Peter Morello, G. Thomas Poe

Assistant Professors:
Angela Blam, Caitlin Horsmon, Judith K. McCormick (undergraduate adviser)

Instructor:
Linda Kurz (principal undergraduate adviser)

- Department Description
- Student Learning Outcomes
- Bachelor of Arts: Communication Studies
  - Interpersonal and Public Communications Emphasis
  - Journalism and Mass Communication Emphasis
  - Film and Media Arts Emphasis
- Minors in Communication Studies
- Communication Studies (COMM-ST) Courses

DEPARTMENT DESCRIPTION

The department offers courses leading to a bachelor of arts in communication studies.

The bachelor of arts in communication studies degree offers three areas of emphasis:

- Interpersonal and Public Communication
- Journalism and Mass Communication
- Film and Media Arts

The Interpersonal and Public Communication emphasis offers study in the areas of public address and rhetoric, interpersonal and intercultural communication, organizational communication and
areas associated with human communication behavior.

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

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

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

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

The nationally syndicated literary program “New Letters on the Air” is produced in association with the department and is broadcast on KCUR-FM, the 100,000-watt public radio station licensed to the University of Missouri-Kansas City. Internships are available to qualified students; they should contact the department for more information.

Special Awards and Scholarships
The Alex and Josephine B. Coleman Scholarship is awarded each year to an outstanding junior- or senior-level student. The award recognizes meritorious undergraduate work in communications and encourages program completion. The Suzanne Crispin Williams Scholarship is awarded annually to a non-traditional returning female student in Communication Studies or Women’s Studies. A Film Finishing Fund provides grants to intermediate and advanced production students and the Student Film League holds showcases of student film and video projects. Cash prizes may be awarded for winning entries. The Faye Kirchner Public Speaking Contest is held in the fall and spring semesters. Students enrolled in CommS 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.

STUDENT LEARNING OUTCOMES
The Department of Communication Studies offers a variety of program areas, including speech communication, print and electronic journalism, advertising, public relations, media theory and history, as well as radio, television, and film/video production. While each of these program areas have distinct outcomes in regard to professional competence, the faculty makes a strong effort to work collaboratively to assure that the measure of success in earning a degree in Communication Studies is defined in three departmental outcome goals which we seek to make one in the learning process:

1. Oral and written communication competence.
2. The development of critical thinking skills.
3. The development of both social and professional skills.

We recognize that the development of “professional skills” involve both general and specific outcomes. General outcomes include producing students who display professional standards in regard to interpersonal, intercultural, and organizational communication skills, as well as professional work habits (punctuality, reliability, ethical discernment, teamwork, etc.). Specific professional skills taught in the Department prepare students to succeed in the professional areas of business communication, health communication, advertising, public relations, film, broadcasting, and journalism.

The Department makes a conscious effort to assess our curricula, teaching, as well as learning processes, and student/faculty competence, on the basis of student learning outcomes. We take pride in our reputation as a “teaching” department.

These outcome goals must equally serve students who will be immediately entering the workplace following the attainment of their undergraduate degree, as well as those who will be entering graduate school programs in a wide variety of academic areas (law, business, speech communication, journalism, film, among others).

In every departmental course/lab, we consciously seek to employ specific learning process options that reinforce the three goals above. For example, in a film/media production class, student work is not only graded on professional standards of technical skill, but also on the ability of the student to give an oral presentation concerning their film/video production, as well as the ability to turn in written work that demonstrates an ability to critical/theoretical/historical analysis of the production. The same approach is likewise applied to professional internships.

JOURNALISM AND MASS COMMUNICATION EMPHASIS
FILM AND MEDIA ARTS EMPHASIS
MINOR IN COMMUNICATION STUDIES
A minor in communication studies may be earned by completing two required courses (COMM-ST 110 and 392), plus another 12 credit hours in any 300-400 level courses within the department. Students may declare their minor by meeting with the undergraduate adviser and filing a completed Declaration of Major Form (available in 202 Haag Hall) with a current copy of their transcript. A grade of “D” in a course within the minor will not be accepted for credit in the program.

Required Courses: (6 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 110</td>
<td>Fundamentals of Effective Speaking and Listening</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 392</td>
<td>Introduction to the Study of Mass Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Minor in Film Studies
A minor may be earned in the study of the film medium and the use of film and mass media for artistic, cultural and social purposes. (Not available to ComS majors.)

Required Courses: (6 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 230</td>
<td>Introduction to Film Studies</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 777</td>
<td>History of the American Film Industry</td>
<td>3</td>
</tr>
</tbody>
</table>
Electives: (12 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 220</td>
<td>Modern Communications Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 250</td>
<td>Introduction to Media Production</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 320</td>
<td>Mass Media, Culture and Society</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 339</td>
<td>Film Theory and Criticism</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 341WI</td>
<td>Rhetorical Theory &amp; Criticism</td>
<td></td>
</tr>
<tr>
<td>COMM-ST 351WI</td>
<td>Fundamentals of Writing for the Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 354</td>
<td>Introduction to Screenwriting</td>
<td></td>
</tr>
<tr>
<td>COMM-ST 363</td>
<td>Radio Production I</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 373</td>
<td>Intermediate Media Production</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 384</td>
<td>Documentary Film</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 386</td>
<td>Documentary Production</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 387</td>
<td>The World of Alfred Hitchcock</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 393</td>
<td>Great Directors of Foreign Film</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 397</td>
<td>History of the Hollywood Musical</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 398</td>
<td>The World of &quot;Film Noir&quot;</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 400</td>
<td>Special Studies</td>
<td></td>
</tr>
<tr>
<td>COMM-ST 402CD</td>
<td>American Social Film: Silver Screen &amp; the American Dream</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 403CE</td>
<td>Radical Changes Since 1945</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 414</td>
<td>Advanced Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 421</td>
<td>Producing and Distributing Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 427</td>
<td>Directing</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 428</td>
<td>Advanced Media Production</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 429</td>
<td>Media Law</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 433</td>
<td>Communication Studies Activities</td>
<td>1-4</td>
</tr>
<tr>
<td>COMM-ST 434</td>
<td>Communication Studies</td>
<td></td>
</tr>
</tbody>
</table>

Criminal Justice and Criminology

DEPARTMENT OF CRIMINAL JUSTICE AND CRIMINOLOGY

5215 Rockhill Road
(816) 235-2751
Fax: (816) 235-5193
mailto:sociology@umkc.edu
http://cas.umkc.edu/soc

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

Department Chair:
Kenneth Novak

Professors:
Wayne Lucas (principal graduate adviser)

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

Assistant Professors:
Toya Like, Jessica Hodge

Visiting Assistant Professor: Kristin Bechtel

Administrative Assistant:
Tricia Falk

• Department Description
• Department Activities
  ◦ Criminal Justice and Criminology
    ◦ Bachelor of Arts in Criminal Justice and Criminology
    ◦ Master of Science in Criminal Justice and Criminology
    ◦ Student Learning Outcomes
    ◦ B.A. Degree Requirements
    ◦ Minor in Criminal Justice and Criminology
• Courses
  ◦ Criminal Justice and Criminology (CJC) Courses

DEPARTMENT DESCRIPTION

The Department of Criminal Justice and Criminology offers programs of study leading to:

• Bachelor of Arts in Criminal Justice and Criminology
• Master of Science in Criminal Justice and Criminology

A program minor is also available in Criminal Justice and Criminology.

The mission of the department is to extend knowledge about the nature of social life. In the process of learning about social life, students will have opportunities to develop critical thinking and research skills and to apply classroom learning through experiences in community organizations and agencies. Department faculty members are committed to excellence in teaching and work to assist students in developing a foundation for moving into a career.

DEPARTMENT ACTIVITIES

Academic Advising

Student academic advising is a continuous process in the department. Undergraduate advisers are available for consultation throughout the academic year. The department recommends that students check the program requirements in the department office before filing the declaration of major form. Undergraduate majors are encouraged to consult with the department to establish a tentative plan of study. Students should list their mail and e-mail addresses with the department office so that they can receive notifications concerning the class time table, new classes, and other departmental information of interest to majors.

Financial Assistance

Students can receive financial assistance through various campus scholarships, loan programs, grants and the work-study program. Students who are interested should contact the Financial Aid and Scholarships Office.

Federal Law Enforcement Officers Association
**Scholarship in Criminal Justice & Criminology**

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

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

**Cooperative Programs**

The department cooperates with several other programs on the campus by jointly listing courses at the undergraduate level. Students may benefit from combining one of these areas of study with their major:
- Black Studies
- Family Studies
- Gerontology
- Honors program
- Urban Studies
- Women's and Gender Studies

**CRIMINAL JUSTICE AND CRIMINOLOGY**

The department offers the bachelor of arts and master of science degrees in criminal justice and criminology (CJC). 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 STUDENT LEARNING OUTCOMES**

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

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

**B.A. DEGREE REQUIREMENTS**

The B.A. degree requires a total of 36 credit hours in addition to the general education requirements for a degree in The College of Arts and Sciences.

For students selecting the CJC major, required courses are the following:

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

- MATH 235 is not a substitute for CJC 363.
- Students are expected to take CJC 470WI after they finish all other CJC courses. CJC 470WI is open only to CJC majors in their last semester of coursework.

Two of the following are also required:

- CJC 265 Delinquency and Juvenile Justice
- CJC 250 Introduction to Policing
- CJC 270 Principles of Corrections
- CJC 320 Supreme Court and the Criminal Process

Students should receive a grade of no lower than C- in the core required courses (CJC 101, 319, 363, 483, and 470WI) and an overall GPA of 2.0 in the major.

It is suggested that students broaden their course choices by selecting related offerings in English (especially those courses that stress writing skills), philosophy, history, geography, political science, psychology, sociology and public administration.

Transfer students may be credited with a maximum of 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.

In selecting courses to fulfill the 15 credit hours of CJC electives, CJC majors and minors should be aware of the following restrictions:

- No more than 6 credit hours of Directed Studies in Criminal Justice and Criminology (CJC 490) may be used to fulfill CJC elective requirements.
- Participation in only one Internship in Criminal Justice (CJC 491) may be used to fulfill CJC elective requirements.
- No more than 3 credit hours of Topics in Criminal Justice and Criminology (CJC 492) may be used to fulfill CJC elective requirements.

Students who are pursuing the CJC major or minor are strongly encouraged to meet with their adviser each semester to review their progress toward degree completion, as well as to determine the appropriateness of coursework selected.

**MINOR IN CRIMINAL JUSTICE AND CRIMINOLOGY**

Undergraduate students can obtain a CJC minor. A minimum of 18 credit hours is required, including the introductory courses CJC 101 and CJC 483. At least 9 of the 18 credit hours must be in courses at the 300 or 400 level, in addition to at least 9 credit hours taken from UMKC. Only 3 credit hours from the major field of study may be applied toward a CJC minor.
Mailing Address:
University of Missouri-Kansas City
Department of Economics
HH 211
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
James I. Sturgeon, (816) 235-2837

Undergraduate Adviser:
Stephanie Kelton, (816) 235-5700

IPhD Adviser:
Peter J. Eaton, (816) 235-2832

MA Adviser:
Linwood Tauheed, (816) 235-6477

Graduate Admissions:
Frederic Lee, (816) 235-2543

Administrative Assistant:
Deborah E. Foster, (816) 235-2405

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

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

Associate Professors:
William Black, Peter J. Eaton, Mathew Forstater, Stephanie Kelton

Assistant Professors:
Erik K. Olsen, Linwood Tauheed

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

Affiliated Research Centers and Programs

Center for Economic Information:
Peter Eaton, director
Douglas Bowles, assistant director
Sara Ballew, programmer/analyst
Salma Sami, programmer/analyst

Center for Full Employment and Price Stability:
Mathew Forstater, director
Kelly Pinkham, program development
L. Randall Wray, senior research associate
Stephanie Kelton, research associate

Institute for Labor Studies:
Judith Ancel, director

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

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

The Center for Economic Information was established in November 1994 with the goal of making local, regional and national information accessible to economic decision-makers in the Kansas City metropolitan area. The CEI is affiliated with the Department of Economics and the College of Arts and Sciences.

The Center is involved in research, teaching and outreach activities. The primary expertise of the center is in application of Information Technology for economic analysis.

Center for Full Employment and Price Stability

Haag Hall, Room 211
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.

Institute for Labor Studies

Royall Hall, room 408D
The Department of Economics offers a Bachelor of Arts in Economics. Upon graduating with a B.A. degree in Economics, students will be able to:

- Distinguish the attributes of a variety of economic theories and policies.
- Use their economic knowledge to examine a wide variety of problems that are economic, social, and/or political in nature, on both the micro and macro levels.
- Master statistical methods that will become part of their problem-solving toolset.
- Gain experience in research and writing.
- Undertake a research project in conjunction with a local community development corporation as part of an academic service learning assignment.
- Be better problem solvers and better-informed citizens.

**STUDENT LEARNING OUTCOMES**

**BACHELOR OF ARTS IN ECONOMICS**

Upon graduating with a B.A. degree in Economics:

- Students will be able to distinguish the attributes of a variety of economic theories and policies.
- Students will be able to use their economic knowledge to examine a wide variety of problems that are economic, social, and/or political in nature, on both the micro and macro levels.
- Students will have knowledge of statistical methods that will become part of their problem-solving toolset.
- Students will become proficient writers through assignments in regular classes as well as intensive-writing experiences in the capstone course.
- All students will have undertaken a research project in conjunction with a local community development corporation as part of an academic service learning assignment.
- Students will be better problem solvers and better-informed citizens.

**BACHELOR OF ARTS: ECONOMICS**

**DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE**

---

The Department of English Language and Literature offers a Bachelor of Arts in English Language and Literature. Our students will be able to:

- Read literature in foreign languages.
- Master advanced writing skills.
- Conduct research using a variety of methods.
- Understand the historical and cultural contexts of literature.
- Develop critical thinking and analytical skills.

**DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE**

Cockefair Hall, Room 106
5121 Rockhill Road
(816) 235-1305 or (816) 235-1307
Fax: (816) 235-1308
english@umkc.edu
http://cas.umkc.edu/english

Mailing Address:
University of Missouri-Kansas City
Department of English Language and Literature
CH 106
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Jeffrey Rydberg-Cox

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

Associate Professors Emeriti:

---

The Hospitality Studies Concentration is housed administratively within the Department of Economics. It offers students with the fundamentals of hospitality administration within a liberal arts program, offering a variety of courses in the social science discipline. See the Hospitality Studies section of this catalog for more information.

**Missouri Council for Economic Education**

The department houses the Missouri Council for Economic Education. MCEE is the statewide provider of economic education training for elementary and secondary education.

**Social Science Consortium**

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

**Our Students**

The department provides undergraduate 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://cas.umkc.edu/econ, or e-mail economics@umkc.edu.

For specific information on degree programs, contact Michael Forstater, Undergraduate Adviser (forstaterm@umkc.edu or (816) 235-5862) or Frederic Lee, Graduate Admissions Adviser (leef@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:

- Establish a nationally recognized reputation for research of planning based on GIS analysis through the CEI.
- Establish a nationally recognized academic reputation through the research output of the C-FEPS.
- Develop a community service component of graduate education using an internship system.
- 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.
- Maintain the highest standards of teaching quality in undergraduate and graduate programs.
The English Language and Literature Department 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. Students will master a range of literary approaches that place texts within a cultural history and that explore texts (written, oral, musical, visual) as art, as language, and as cultural production. Students will become proficient writers. Three minors in English are offered for students majoring in other disciplines: one in literature, one in Creative Writing, and one in Writing. Honors students may choose from emphases in Language and Literature, or in Creative Writing. 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 English language, 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 English Language and Literature Department sponsors the publication of Number One, a magazine of student poetry and fiction, and The Susland 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 academic year. The GKCWP is an official National Writing Project affiliate.

Related Information, Opportunities, and Conferences
The English Language and Literature Department sponsors undergraduate and graduate student conferences, a writers' reading series, two summer creative writing workshops (the Mark Twain Workshop and the New Letters Writers Conference), and annual contests for the Barbara Storck Poetry and Short Story Award and the Ilus W. Davis Award in Expository Writing. The department offers additional scholarships for creative writers in the names of former students: Mbembe Milton Smith, Gary William Barger, and Crystal Field. Graduate students are also eligible for the Farnsworth Fellowship. I-PhD students can apply for the Ilus Davis Doctoral Teaching Fellowship. The department also offers courses and an annual conference for English teachers as part of its continuing education function.

Career Implications of the Undergraduate Degree
The English major is recommended for students interested in a broad, general background in the humanities and in the skills of analysis, synthesis, and self-expression. It is excellent preparation for medicine, business, and law, as well as for further literary study in graduate school. In addition to careers in education, writing, and editing, English majors with writing and editorial skills find that they are desirable candidates for positions in businesses where effective communication and written evaluation are required.

Advising System
All undergraduate English majors are assigned to the 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.

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

BACHELOR OF ARTS: ENGLISH MINORS IN ENGLISH
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.

HONORS CREDIT
The letter H appearing before undergraduate English courses in the regular schedule designates honors credit.

INTERNSHIPS AND OTHER OPPORTUNITIES
Through the resources of the metropolitan media and publishing houses, as well as the on-campus facilities of the national literary journal New Letters and literary publisher BkMk Press, students may gain experience in writing and editing. With the approval of the supervising faculty, as well as the principal undergraduate adviser, students may intern with these media for credit. They may also serve on the staff of the student literary journal, Number One. The Undergraduate English Council, a social club focused on literary activities, offers additional opportunities, such as open-mic nights and an annual symposium in conjunction with its Literature for Life week.
Environmental Design Studies (under Architecture)

ENVIRONMENTAL DESIGN STUDIES
See under Architecture:

Department of Architecture, Urban Planning and Design

Environmental Studies

Robert H. Flarsheim Science and Technology Hall
5110 Rockhill Road, Room 420
(816) 235-1334
Fax: (816) 235-5535
geosciences@umkc.edu
http://cas.umkc.edu/geo

Mailing Address
University of Missouri-Kansas City
Department of Geosciences
RHH 420
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Syed E. Hasan

Professors:
Raymond M. Coveney, Jr. (principal graduate adviser and PhD coordinator), Steven L. Driever (director, urban studies), Syed E. Hasan (chair and director, CAER), Wei Ji (graduate geography adviser)

Associate Professors:
Jimmy O. Adegoke (principal undergraduate geography adviser), Daniel P. Hopkins (undergraduate environmental studies adviser), James B. Murowchick, Tina M. Niemi (principal undergraduate geology adviser)

Assistant Professors:
Caroline P. Davies (undergraduate environmental studies adviser; director, environmental studies program), Jejung Lee

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

Official Resources/Services

Undergraduate Admission Requirements
Natural Science/Social Sciences Area Requirements
Career for Geography, Geology and Environmental Studies Graduates
Departmental Activities
Financial Aid and Transportation Costs

Environmental Studies Program

Program Description
Bachelor of Science/Bachelor of Arts: Environmental Studies
Bachelor of Science/Bachelor of Arts: Environmental Studies Minor

Geography and Geology Programs

Program Description
Bachelor of Science/Bachelor of Arts: Geography
Bachelor of Science/Bachelor of Arts: Geology
Geography and Geology Minor
Advanced Certificate Program in GIS

Courses

Environmental Science (ENVSC)
Environmental Studies (ENVST)
Geography (GEOG)
Geology (GEOL)

Foreign Languages and Literatures

DEPARTMENT OF FOREIGN LANGUAGES AND LITERATURES

Scofield Hall, Room 216
711 E. 51 Street
(816) 235-1311
Fax: (816) 235-1312
frn-lg@umkc.edu
http://cas.umkc.edu/foreign

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

Department Chair:
Alice R. Redkey Vallejos

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

Professors:
Louis Imperiale

Associate Professors:
Kathy M. Krause, Gayle Levy,
Alice R. Redkey Vallejos (chair)

Assistant Professors:
K. Scott Baker, Rebecca L. Lee, Larson Powell, Alberto Villamandos
Department Description

The Department of Foreign Languages and Literatures offers programs of study leading to the bachelor of arts degree in French, German and Spanish and graduate-level work leading to a master of arts in romance languages and literatures (French and Spanish). In addition, undergraduate minors are offered in French, German and Spanish.

Language instruction also is offered in Arabic, Chinese, Greek, Hebrew, Italian and Latin.

Career Implications

Aside from pursuing teaching careers, holders of degrees in foreign languages are in demand by government, the media and international business in growing numbers, as the need for increased sophistication and expertise in international affairs continues to expand. Multinational companies and organizations now view foreign language skills as an asset in a prospective employee. In the past 10 years this notion has become widespread in such areas as business, industry, commerce, civil service, education, law, communications media and health services. The changing conditions of international economics, politics and communications indicate that this trend will continue.

Higher Educational Applications

Reading knowledge of a foreign language is a requisite for many graduate degrees. Foreign language proficiency, moreover, is gaining increasing importance on all levels of university instruction as curricula are internationalized. Scholars and professionals in many fields have long recognized the need for, and advantages of, foreign language competency for improved international communication and effective conduct of basic and applied research.

Special Resources

Study Abroad

UMKC has exchange and study agreements with other institutions in many parts of the world. Students have an opportunity to spend a year 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 French and Spanish are provided free of charge. Conversation hours are also held in the Language Resource Center. First-year language students are encouraged to use the LRC.

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 under "Bachelor of Arts: French, German, Spanish."

2. Doctoral students may be required to demonstrate satisfactory completion of foreign language proficiency through accepted coursework or other evidence specified by the student's supervisory committee. Students should check with their academic unit about specific foreign language proficiency requirements.

Attendance and Course Level

Class attendance

The nature of language acquisition is such that regular attendance, throughout the semester, is expected of all students enrolled for credit.

Course Levels

Course levels are generally indicated by the first digit of the course number. For example, 100-level courses are first-year courses. 200-level classes represent second-year courses, etc. Accordingly, students entering a 200-level French course must have completed French 110 and 120 or their equivalent. Successful completion of a second-year course (normally 211 and 221 or their equivalent) is required of all students who want to enroll in 300- or 400-level courses. Exceptions must have the approval of the student's adviser.

Bachelor of Arts: French, German, Spanish Student Learning Outcomes

Bachelor of Arts in French, German or Spanish

Learning outcomes are aligned with national and state standards on language and cultural understanding as reflected in the 5 C's: communication, cultures, connections, comparisons and communities, and on national standards for language skill as reflected in the American Council on the Teaching of Foreign Language proficiency guidelines:

- To obtain a broad base of knowledge and perspectives on French-, German- or Spanish-speaking civilizations, and of their respective cultural products—literature, the arts, socio-historical, political and economic structures, etc.—within a variety of interpretive frameworks.
- To understand and articulate cultural practices and perspectives, cultural process and product as dynamic elements in the construction of individual, national, transnational and migratory identities.
To understand aspects of language and culture in the world as part of all human communication, and within interdisciplinary contexts.
To appreciate and encourage cultural diversity in broad spectrums of human endeavor. To attain advanced reading, writing, listening and speaking proficiency in the language studied.
To develop skill in critical thinking, toward self-directed and lifelong learning.

**SUGGESTED FOUR-YEAR PLAN OF STUDY FOR THE B.A. DEGREE**

**Year I**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>110*</td>
<td>Curricular Requirements and Electives</td>
<td>5</td>
</tr>
<tr>
<td>Second</td>
<td>120*</td>
<td>Curricular Requirements and Electives</td>
<td>10-11</td>
</tr>
</tbody>
</table>

**Year II**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>211*</td>
<td>Curricular Requirements and Electives</td>
<td>3</td>
</tr>
<tr>
<td>Second</td>
<td>221*</td>
<td>Curricular Requirements and Electives</td>
<td>9-13</td>
</tr>
</tbody>
</table>

**Year III**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>315*</td>
<td>Curricular Requirements and Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>300/400 Literature and Civilization</td>
<td>6-9</td>
<td>3-6</td>
</tr>
<tr>
<td>Second</td>
<td>325*</td>
<td>Curricular Requirements and Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>300/400 Literature and Civilization</td>
<td>6-9</td>
<td>3-6</td>
</tr>
</tbody>
</table>

**Year IV**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>415*</td>
<td>Curricular Requirements and Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>400 Literature</td>
<td>3-6</td>
<td>3-6</td>
</tr>
<tr>
<td></td>
<td>499* Senior Seminar (Spanish) - Fall</td>
<td>3</td>
<td>6-9</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>6-9</td>
<td>6-9</td>
</tr>
<tr>
<td>Second</td>
<td>425*</td>
<td>Curricular Requirements and Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>400 Literature</td>
<td>3-6</td>
<td>3-6</td>
</tr>
<tr>
<td></td>
<td>499* Senior Seminar (French, German) - Spring</td>
<td>3</td>
<td>6-9</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>6-9</td>
<td>6-9</td>
</tr>
</tbody>
</table>

* Required course

**THE MINOR: FRENCH, GERMAN, SPANISH REQUIREMENTS FOR TEACHER CERTIFICATION IN FOREIGN LANGUAGES**

Certification as a Foreign Language teacher (K-12) in either Kansas or Missouri requires that a student complete specific requirements in Spanish, French or German and the School of Education. A separate application for teacher education is required. For further information about the program, contact Dr. Reckley Vallejos, reckleya@umkc.edu, and the School of Education at (816) 235-2234.

**GERMAN STUDIES MINOR**

**Geosciences (Geology, Geography, Environmental Studies)**

**DEPARTMENT OF GEOSCIENCES**

Robert H. Flarsheim Science and Technology Hall
1110 Rockhill Road, Room 420
(816) 235-1334
Fax: (816) 235-5535
geosciences@umkc.edu
http://cas.umkc.edu/geo

Mailing Address:
University of Missouri-Kansas City
Department of Geosciences
RPH 420
5160 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Syed E. Hasan

Professors:
Raymond M. Coveney, Jr. (principal graduate adviser and PhD coordinator), Steven L. Driever (director, urban studies), Syed E. Hasan (chair and director, CAER), Wei Ji (graduate geography adviser)

Associate Professors:
Jimmy O. Adegoke (principal undergraduate geography adviser), Daniel P. Hopkins (undergraduate environmental studies adviser), James B. Murowchick, Tina M. Niemi (principal
DEPARTMENT DESCRIPTION

The Department of Geosciences offers programs of study leading to bachelor of science and bachelor of arts degrees in environmental studies, geography and geology. The department offers a master of science degree in Environmental and Urban Geosciences. The department also participates in the Interdisciplinary Ph.D. program. The department also offers a graduate-level Waste Management Certificate Program. Students who designate geosciences (environmental studies, geography or geology focus) on their application for admission to the doctoral program must meet admission and other requirements available from the department. See the School of Graduate Studies section in the Graduate Catalog for more information about doctoral programs. The department takes a leading role in the undergraduate interdisciplinary environmental studies program. Courses offered by the department can be used to fulfill the requirements of the Missouri Department of Education for earth science, science-math, and social science teaching specialties.

Students majoring in environmental studies, geography or geology obtain a broad liberal arts education during their undergraduate career and at the same time receive sound fundamental training in the geosciences. Departmental faculty members are committed to educating non-majors about the earth and environmental sciences as well as those students who plan to pursue careers in the geosciences.

All undergraduate majors in the Department of Geosciences (including Environmental Studies) must maintain a minimum grade-point average above 2.0 in all courses taken to fulfill departmental degree requirements. This minimum GPA also applies to all credit hours transferred from other institutions.

SPECIAL RESOURCES/SERVICES

Geosciences Museum

The Geosciences Museum, founded by Richard L. Sutton, M.D., is located in Room 271, R.H. Flarsheim Hall. It contains relief models and interactive displays, along with a full range of 2,500 spectacular mineral and fossil specimens from all over the world. Hours of operation are 8:30 a.m. to 4:30 p.m. weekdays and 10:00 a.m. to 4:00 p.m. Saturdays, whenever school is in session. Admission is free.

Center for Applied Environmental Research (CAER)

The Center for Applied Environmental Research http://cas.umkc.edu/caer is administered by the Geosciences Department and directed by Professor Syed E. Hasan. The center is a resource for governmental agencies, private firms, and the general public in matters of the environment. Its programs address such matters as environmental geophysics, geochemistry, underground space, foundation stability, waste management, geologic hazards, environmental justice, natural resource assessment, and land-use planning.

UNDERGRADUATE ADMISSION REQUIREMENTS

Prospective students desiring to major in the geosciences programs should enroll in as much work as possible in mathematics, English composition and sciences during their high school years.

Students transferring from other colleges or universities should have taken required non-departmental 100- and 200-level courses listed under degree programs in this catalog prior to arriving at UMKC. For example, geology students should take mineralogy during their first fall semester and should have already completed the chemistry prerequisite by that time. In addition, it would be desirable for B.S. majors to have completed a semester of calculus. To assure that students transferring from other institutions of higher education can continue in an uninterrupted plan of study in the 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.

NATURAL SCIENCE/SOCIAL SCIENCES AREA REQUIREMENTS

The following geosciences courses count toward the natural science requirements of the College of Arts and Sciences:

- ENVS 110: Understanding the Earth Laboratory
- ENVS 110B: Understanding the Earth
- GEOL 201: Intro to Geographic Information Systems
- GEOL 315: Intro to Weather and Climate
- GEOL 314: Principles of Geomorphology
- GEOL 320: Cartography
- GEOL 315: Descriptive and Synoptic Meteorology
- GEOL 335: Introduction to Waste Management
- GEOL 305: Principles of Biogeography
- GEOL 401: Advanced Geographic Information Science
- GEOL 402: Environmental Remote Sensing
- GEOL 404: Biogeography and Landscape Ecology
- GEOL 406: Global Environmental Change
- GEOL 325: Geochronology
- GEOL 442: Quaternary Environments
- GEOL 444: Geocomputation for Earth and Environmental Sciences
- GEOL 446: Satellite Climatology
- All Geology courses

Social Science Area Requirements

All Geography courses except the above count toward the social science requirements of the College of Arts and Sciences.

CAREER FOR GEOGRAPHY, GEOLOGY AND ENVIRONMENTAL STUDIES GRADUATES

...
Geography

Students of geography at UMKC are offered a well-rounded education leading to promising career prospects; the market for geographers is global. Geography is centrally concerned with the whole range of interrelationships between human beings and the natural and built environments. Geography graduates find work in commerce; government and public administration; city and regional planning; natural resource management and environmental conservation; historic preservation; landscape design; pollution control; weather-forecasting; climatological and agricultural analysis; statistical analysis; government and commercial map-making; transportation; the travel and tourism industry; market analysis and development; diplomacy; and national and international economic development programs. Experience with geographic information science (GIS) and remote sensing technologies is a great advantage in all these fields. Well-educated geographers are often involved in the crafting of policy and legislation, in the practice of law, in consulting, in publishing and in education.

Geology

Geology graduates have numerous employment opportunities, especially in areas relating to the environment, to engineering and to applied geology. Training in urban and environmental geology will prepare graduates to develop and evaluate environmental impacts, deal with waste management issues; model groundwater flow; handle laboratory and field instrumentation; and assess natural hazards. Geologic studies of soils, energy, mineral and water resources, and the environment are essential for private industry, as well as for governmental agencies. Graduates may also join state and federal geological surveys. The petroleum industry was for many years the principal employer of geologists. However, currently the best employment opportunities are in the area of the environment.

Environmental Studies

Environmental issues such as climate variation, atmospheric pollutants and non-point-source water pollution are complex issues. The general public is ill-equipped to evaluate these issues and must rely on experts. The need for environmental education and professionals in the field of the environment has never been greater. Given these needs, employment opportunities are unlimited and are likely to remain so for decades. Specific careers available to those who hold an environmental studies degree lie with companies and agencies that deal with engineering, environmental geology, environmental law, environmental health and safety, emergency response, environmental training, environmental chemistry, politics and social issues.

Teacher Certification in Earth Science or Social Science

Certification as a middle school (grades 5-9) or secondary (grades 9-12 Earth Science teacher in either Kansas or Missouri requires that a student complete specific requirements in Biology, Chemistry, Environmental Studies, Geology, Physics and in the School of Education. Certification as a middle school (grades 5-9) or secondary (grades 9-12) Social Science teacher in either Kansas or Missouri requires that a student complete specific requirements in History, Political Science, Economics, Geography, Behavioral Sciences and in the School of Education. A separate application for teacher education is required. For further information about the program, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

DEPARTMENTAL ACTIVITIES

Advising System

Students who wish to major in geology, geography or environmental studies should seek advice from the department at the earliest possible time. Transfer students, including those from local community colleges, should see faculty advisers in the department prior to admission to UMKC. All full-time faculty members serve as department advisers, but lead roles are designated to particular faculty for each discipline. Individuals may make advising appointments at any time during the semester by phone at (816) 235-1334 or by e-mail at geosciences@umkc.edu.

Practicums and Internships

The nature of the fields of atmospheric science, environmental studies, geology, and geography necessitates practical in-class and laboratory exercises; field trips and fieldwork; working seminars and independent projects of a practical nature. More explanation of specific courses can be found in the individual course descriptions. Internships are available with local organizations.

FINANCIAL AID AND TRANSPORTATION COSTS

A variety of scholarships and student financial aid alternatives are available to students accepted for regular enrollment. (See the Financial Aid Web site http://www.umkc.edu/finaid for more information.) Scholarships available solely to geosciences students include the Richard J. Gentile Scholarship, the Peck-Williams-Garstang Scholarship, the Truman Stauffer Scholarship, the Denis Ward Scholarship, and the Greater Kansas City Gem and Mineral Show Association Scholarship. Please note that certain field courses and field trips necessitate that some travel costs are at the expense of the individual student.

ENVIRONMENTAL STUDIES PROGRAM

Program Director:

Caroline P. Davies

Participating Architecture, Urban Planning and Design Faculty:

Joy Swallow, Michael Frisch

Participating Bloch School of Business and Public Administration Faculty:

Homer Erekson

Participating Chemistry Faculty:

Yandhing (Jerry) Jean, Kathleen Klivay, J. David VanHorn, Charles Wunrey

Participating Computing and Engineering Faculty:

Deborah O’Bannon, Jerry Richardson

Participating Cookingham Institute of Public Affairs Faculty:

Abigail York

Participating Economics Faculty:

Michael Kelay, Mathew Forstater

Participating Education Faculty:

A. Louis Odum

Participating Geosciences Faculty:

Jimmy Adegoke, Raymond Coveney, Caroline Davies, Steven Driever, Syed Hasan, Daniel Hopkins, Wei Ji, Jejung Lee, James Murowchick, Tina Nemi

Participating History Faculty:

John Herron

Participating Law Faculty:

John Rapstule

Participating Philosophy Faculty:

James Sheppard

Participating Political Science Faculty:

Reginaid Basa, Boris Rick

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 studies. The program is designed to meet pressing needs in the workforce and the urban community, producing college graduates who are broadly educated in issues of the environment and who can communicate effectively. The core of the program consists of a unique blend of required courses supplemented by key electives dependent upon the particular interests and needs of students. Required courses span the fields of the biological, physical, and social sciences and humanities. (See the Environmental Studies Web site http://cas.umkc.edu/spes for more information.)

STUDENT LEARNING OUTCOMES

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

Professors:
Raymond M. Coveney Jr., Steven L. Driever (director, Urban Studies), Syed E. Hasan (chair; director, CAER), Wei Ji (graduate geography adviser)

Associate Professors:
Daniel P. Hopkins (undergraduate environmental studies adviser, B.A.), James B. Murowchick (principal graduate adviser), Tina M. Niemi (principal undergraduate geology adviser)

Assistant Professors:
Jimmy O. Adegoke (principal undergraduate geography adviser), Caroline P. Davies (undergraduate environmental studies adviser, B.S.; director, Environmental Studies Program), Jejung Lee

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

**PROGRAM DESCRIPTION**

The department has offered geography and geology courses since 1934. The geography and geology programs of the Department of Geosciences include both bachelor of arts and bachelor of science degrees. The department also offers a master of science degree in environmental and urban geosciences, 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.

**STUDENT LEARNING OUTCOMES**

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

**ADVANCED CERTIFICATE PROGRAM IN GIS**

Recognizing the important role GIS now plays in shaping understanding of the environment and in the management of public resources, professors from Geosciences, Urban Planning and Design, Criminal Justice and Criminology, and Computing and Engineering created a technology-based curriculum designed to prepare students for a variety of careers in the rapidly growing GIS job market. The program requires participating students to complete a minimum of five courses or 17 credit hours in order to receive a certificate. During the course of the program implementation, the curriculum of the program may be updated when related new courses are developed. Presently the following courses will constitute the curriculum for the program.

<table>
<thead>
<tr>
<th>Required Core Courses (8 credit hours)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 203</td>
<td>Introduction to Geographic Information Systems 4</td>
</tr>
<tr>
<td>GEOG 401/5507</td>
<td>Advanced Geographic Information Science 4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Choose Three from the Following (9-10 credit hours)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 402/5502</td>
<td>Environmental Remote Sensing and Digital Image Analysis 4</td>
</tr>
<tr>
<td>GEOG 444/5544</td>
<td>Geocomputation for Earth and Environmental Sciences 3</td>
</tr>
<tr>
<td>GEOG 448/5548</td>
<td>Satellite Climatology 3</td>
</tr>
<tr>
<td>GEOG 5544</td>
<td>Special Topics in Advanced GIS and Remote Sensing 3</td>
</tr>
<tr>
<td>UD 300</td>
<td>Quantitative Methods in Planning 3</td>
</tr>
<tr>
<td>UD 401</td>
<td>GIS for Urban Analysis I 3</td>
</tr>
<tr>
<td>UD 402</td>
<td>GIS for Urban Analysis II 3</td>
</tr>
<tr>
<td>CJC 5592</td>
<td>Advanced GIS for Crime Analysis 3</td>
</tr>
<tr>
<td>ECE 484/5590</td>
<td>Introduction to Digital Image Processing 3</td>
</tr>
<tr>
<td>CS 352</td>
<td>Data Structures and Algorithms 3</td>
</tr>
<tr>
<td>CS 508</td>
<td>Database Design, Implementation and Validation 3</td>
</tr>
</tbody>
</table>

Students and working professionals enrolled in the Advanced GIS Certificate Program will become proficient in using GIS and remote sensing techniques to address various environmental and urban issues. They will receive practical GIS experience and supplement their knowledge of geography, geology, environmental studies, and urban studies and planning. For more information go to Web site at http://cas.umkc.edu/geo/program/certificate_GIS.htm

**History**

**DEPARTMENT OF HISTORY**

Cockefair Hall, Room 203
5121 Rockhill Road
(816) 235-1631
Fax: (816) 235-5723
History@umkc.edu
http://cas.umkc.edu/history

Mailing Address
University of Missouri-Kansas City
Department of History
CH 203
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Gary L. Ebersole

Professors Emeriti:
Jose F. Clark, John T. Graham, Herman M. Hattaway, Lawrence H. Larsen, Stanley B. Parsons, Patrick A. Peebles, Joseph P. Schultz

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

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

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

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

- Department Description
- Desirable Preparation for Undergraduate Admission
- Department Activities
- Student Learning Outcomes
DEPARTMENT DESCRIPTION

The faculty of the Department of History believe history is an essential component of a liberal arts education. As an important part of the curriculum, historical study enables students to understand the interaction of many aspects of state, society and culture, and the dynamics of human change. It offers a valuable perspective on contemporary problems as well as knowledge of the past for its own inherent interest.

Departmental offerings, at the undergraduate and graduate levels, include the major areas of historical concern such as American history and ancient, medieval and modern European history. In recognition of the role of a university in its community -- local, national and world -- the department offers courses in urban and social history; the history of science; Asian and Middle Eastern history; Judaic Studies; religious studies; women's and gender studies; and black studies. The department is also vitally involved in interdisciplinary courses and programs.

DESIREELE PREPARATION FOR UNDERGRADUATE ADMISSION

Students wishing to major in history should acquire as broad a background as possible in subjects related to their historical interests. Both secondary school and community college courses in history should be supplemented with courses in other social sciences and the humanities. Students interested in the history of science should emphasize studies in physical and biological sciences.

The discipline is broad in scope and methods. Faculty members believe a logical and systematic selection of courses in other disciplines will complement the study of history. They encourage prospective majors to consult with them in preparing an integrated course of study.

Career Implications of the Bachelors Degree

The bachelor of arts degree in history provides students with general preparation for a wide range of occupations. Most majors follow business and professional careers and receive benefits both personally and professionally from the development of analytical skills and examination of relevant subject matter in history courses. The bachelor of arts degree in history is more directly applicable to careers in law, teaching, museum work, archival work, administration of historical agencies and selected positions in government. The principal undergraduate adviser can offer counsel on careers for graduates in history in both the private and public sectors.

Individuals seeking careers as teachers and professional historians may pursue advanced degrees on this campus. The department offers the master of arts degree and participates in the Interdisciplinary Ph.D. program. Students interested in graduate studies should contact the principal graduate adviser, Andrew Bergerson, or for the Interdisciplinary Ph.D. program, contact Carla L. Klausner.

The bachelor of arts degree in history provides students with general preparation for a wide range of occupations. Most majors follow business and professional careers and receive benefits both personally and professionally from the development of analytical skills and examination of relevant subject matter in history courses. The bachelor of arts degree in history is more directly applicable to careers in law, teaching, museum work, archival work, administration of historical agencies and selected positions in government. The principal undergraduate adviser can offer counsel on careers for graduates in history in both the private and public sectors.

Students interested in graduate studies should contact the principal graduate adviser, Andrew Bergerson, or for the Interdisciplinary Ph.D. program, contact Carla L. Klausner.

DEPARTMENT ACTIVITIES

Advising

Counseling is key to a meaningful and profitable course of study in the department. Students should consult the principal undergraduate faculty adviser regarding selection of courses and for help in academic matters. Students may select an adviser, or an adviser can be appointed by the principal undergraduate adviser. Faculty office hours and prospective schedules of courses are posted in the department office, located in 203 Cockefair Hall and on the department Web site http://cas.umkc.edu/history. The department offers printed guides to the requirements for its graduate degrees.

Special Programs

Teaching Certification in Social Studies

Certification as a middle school (grades 5-9) or secondary (grades 9-12) social studies teacher in either Kansas or Missouri requires that a student complete specific requirements in history, political science, economics, geography, behavioral sciences and the School of Education. A separate application for teacher education is required. For further information about the program, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

History and Philosophy of Science

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

Applied History

Courses offered by the department prepare graduates for a variety of careers in historical agencies or in the study and preservation of cultural artifacts. For further information concerning archival methodology, consult Linna Place at (816) 235-5394 or by e-mail placel@umkc.edu. For course offerings in material culture, contact Miriam Forman-Brunell at (816) 235-5220 or by e-mail forman-brunellm@umkc.edu.

Honorary Organization

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

History Club

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

STUDENT LEARNING OUTCOMES
Bachelor of Arts in History

The Department of History has developed a set of carefully crafted learning objectives. Simply put, history majors are expected to acquire specified levels of knowledge, perspectives and skills through the study of the past. The learning objectives are designed to help students succeed in their undergraduate history major, as independent, creative and self-directed learners. More important, they will help students to be successful in their pursuit of a career and to hold a lifelong appreciation for the humanities and social sciences. The objectives are enumerated as follows:

Knowledge of the Past

Students studying history will:
- Acquire knowledge of the world's civilizations and peoples, and their political, economic, social and cultural histories.
- Gain in-depth knowledge of a historical field by specializing in one of several departmental concentrations.
- Gain exposure to a range of historical subjects outside the concentration.
- Complete at least one course that examines a non-western society.

Perspectives

Students studying history will:
- Develop a historical understanding of an increasingly multicultural society and interdependent world.
- Understand the variety and complexity of the human experience and foster an appreciation for processes of change.
- Comprehend how constructions of class, race and gender dynamically shape social structures, national identities and all forms of human relationships;
- Realize the interlocking relationships among science, technology, the environment and society.
- Appreciate the value of interdisciplinary perspectives and methods.

Analysis and Interpretation

Students studying history will:
- Critically evaluate secondary, textual evidence by identifying a thesis, noting sources and methods used in argument, discerning the conclusions and determining the perspective, bias and reliability of the argument.
- Think critically, and master the art of interpretive analysis based on the widest possible array of primary sources: written, material and other cultural texts.

Research and Communication

Students studying history will:
- Locate printed and online information sources to research a topic exhaustively.
- Write clear, well organized, properly documented and grammatical prose.

PROGRAM MINOR

A minor in history may be earned with a minimum of 18 credit hours of coursework in the discipline (at least 12 of which must be at the 300- and 400-level). A maximum of six of the 18 credit hours may be taken in two of the 100- and 200-level survey courses.

HISTORY COURSES

- 101 American History To 1877 (3)
- 102 American History Since 1877 (3)
- 201 Western Civilization To 1600 (3)
- 202 Western Civilization Since 1600 (3)
- 206 World History To 1600 (3)
- 208 World Civilization Since 1600 (3)
- 250 Introduction To American Studies (3)
- 300B Special Studies In History (1-3)
- 300C Special Studies (1-3)
- 300CM Cluster Course: Mexico, Central America And The Human Condition (3)
- 300D Special Studies (1-3)
- 300K Special Studies History (1-3)
- 300R Special Studies (1-3)
- 300RA Special Studies (1-3)
- 300RB Special Studies (1-3)
- 300RH Special Studies (1-3)
- 301WI Historiography And Method (3)
- 302 America,1000-1763:The Formative Era (3)
- 303 America, 1763-1783: The Revolutionary Heritage (3)
- 304 America, 1783-1828: The National Experience (3)
- 305 America, 1828-1852: The Jacksonian Period (3)
- 306 America, 1850-1877: Civil War And Reconstruction (3)
- 307 America 1877-1917: Development Of Industrial America (3)
- 308 America: 1914-1945: The Era Of The World Wars (3)
- 308 America: 1945-Present: Our Times (3)
- 310WI History Of Modern Computing (3)
- 333 Immigrants And Immigration In American History (3)
- 354R Women In Modern America (3)
- 355A Indians Of South America And The European Invasion (3)
- 355BA Indians Of North America To 1789 (3)
- 355BB Indians Of North America Since 1789 (3)
- 356 Rise Of The City In The U.S. (3)
- 356R Kansas City: History Of A Regional Metropolis (3)
- 357 The American West (3)
- 360R Constitutional History Of The United States (3)
- 361 American Foreign Relations (3)
- 364R Nature, Culture And The Human Experience (3)
- 365A American Environmental History (3)
- 365R American Labor History (3)
- 368 Girlhood And Boyhood In America (3)
- 369 Women And Work In Early America (3)
- 370 Introduction To Material Culture (3)
- 391 Archival Methods (3)
- 392A Archival Internship (1-3)
- 392B Public History Internship (1-3)
- 392B Public History Internship (1-3)
- 393 Museum Science (3)
- 394 African American History Before 1877 (3)
- 395 African American History Since 1877 (3)
- 400 Special Studies (1-3)
- 400B Special Studies (1-3)
- 400C Special Studies (1-3)
- 400CC Special Studies (3)
- 400CF Cluster Course: Courts And Culture In The High Middle Ages (3)
- 400CI CC:Culture,Kultur,Civilisation:Identity Formation In Middle Class (3)
- 400CI Special Studies (3)
- 400CL Special Studies (1-3)
- 400CP American Social Film: Silver Screen And The American Dream (3)
- 400CS Cluster Course:ClockThe Other Muses Hist&Culture 5Th Cent Athens (3)
Honors Program

**HONORS PROGRAM**

**Haag Hall**, Room 204
5120 Rockhill Road
(816) 235-2820
Fax: (816) 235-5542
http://cas.umkc.edu/honors

Program Director:
Gayle Levy, Ph.D.
levyg@umkc.edu

Associate Program Director:
James Sheppard, Ph.D.
steppard@umkc.edu

**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. Colloquium allows honors students to meet informally on a regular basis to discuss and debate important issues. The Honors Colloquium introduces students to a different theme each semester, selected based on faculty and student research interests. Here all the honors students, freshmen and seniors alike, meet with the UMKC faculty and distinguished guest lecturers on subjects ranging from the environment to religion, from the fine arts to astronomy.
Honors credit may also be received from:

- Specially designed honors courses
- Independent study
- Directed readings
- Undergraduate research
- Honors contracts
- Senior Honors Thesis
- Study Abroad

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 Scholars.

Program Initiatives

On campus UMKC offers a supportive atmosphere to encourage integrative thinking through an exciting Living/Learning Community and specialized advising with Honors Faculty Fellows. Leadership skills are honed through special institutes and unique seminars where students reflect on and analyze their community-service experiences. Finally, with an eye toward giving students a leg up on their graduate school and career goals, honors students are strongly encouraged to conduct innovative individual and collaborative research or artistic activity in the form of the senior honors thesis.

Some of the other advantages that the UMKC Honors Program offers students include:

- Priority enrollment for courses during registration.
- Community service and service-learning programs designed specifically for honors students.
- Specially designated general education courses for honors students.
- Tickets to all KC Repertory and UMKC Theatre productions.
- Graduate-level borrowing privileges at Miller Nichols Library.
- Individual advising to prepare honors students to compete for national scholarships (i.e., Rhodes, Marshall, Truman and Goldwater, see www.umkc.edu/international/Fellowships Initial.htm).
- 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 percent on the ACT or SAT.
2. Rank in the top 10 percent 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://cas.umkc.edu/honors/application.pdf.

Transfer students generally need to:

- Fulfill those criteria set for first-year students.
- Have a GPA of at least 3.7.
- Have participated in their previous college's Honors Program.

Continuing UMKC students are encouraged to apply to the Honors Program. Minimum requirements for admission are a 3.5 UMKC grade-point average and the recommendation of two UMKC professors. For 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 3.2 is required for all honors students for continued participation in the Honors Program. Students whose overall grade-point average drops below a 3.2 have a one-semester grace period during which time they can remain in the Honors Program while they work on bringing their cumulative grade-point average above the 3.2 minimum. If, at the end of the grace period, the student’s grade-point average is still below a 3.2, the student will be dropped from the Honors Program. In view of certain extenuating circumstances, and in consultation with the student’s academic adviser, the director of the Honors Program may choose to allow the student to remain in the program.

Honors Living-Learning Community

The UMKC Honors Program, in collaboration with the Department of Residential Life, sponsors the Honors Living-Learning Community. Located in UMKC’s new residence hall, this community of honors students has the opportunity to live and learn together through cohort classes, special programs and events, informal interaction with UMKC faculty, social activities and community service. The program is designed to build cohesive community among the honors students, promote student and faculty engagement and provide continuity of the intellectual learning experience outside of the classroom.

Study Abroad

Members of the UMKC Honors Program are strongly encouraged to spend a summer, a semester or a year studying in a foreign country. Taking classes and living abroad is one of the most personally and intellectually fulfilling experiences a student can have while an undergraduate. The Honors Program organizes a summer study abroad program, but in consultation with the Honors Director, students can earn honors credit by participating in any study abroad program. For more information on Study Abroad, see http://www.umkc.edu/international.

The Honors House

The Honors Program is pleased to invite all honors students to make use of the Honors House: 5317-19 Holmes, 3rd Floor. Members of the Program have free access to a newly remodeled space where they can meet, hang out, study, conduct discussion sessions, etc.

SEARCH: Students Engaged in Artistic and Academic Research

Honors students completing the senior honors thesis or undergraduate research are encouraged to present their findings at the annual SEARCH Symposium for Research and Creative Achievements. The purpose of this symposium is to display and celebrate undergraduate participation in outstanding research and other creative endeavors. Presentations may be in the form of poster presentations or other performance media displaying creative works.

For more information, see the SEARCH section 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.

UMKC College Mock Trial Program

The UMKC Mock Trial Program is closely affiliated with the Honors Program. Most practices are held in the Honors House, and priority in the selection process is given to honors students. Moreover, students may also earn honors credit for participating in Mock Trial.

UMKC 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.

Mock Trial is an excellent activity for those students who are considering attending law school for several reasons. Mock Trial helps students develop the 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). However, 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. Indeed, theatre majors are encouraged to participate in Mock Trial. UMKC’s Mock Trial teams have always been competitive. Participation is open to all 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. Selection for the squad is always highly competitive. Students interested in becoming members of the program should contact their coaches, Derek Moorehead (phone: 816) 235-6094 or e-mail: moorehead@umkc.edu.

Interdisciplinary Minors and Certificate Programs
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
- Family Studies Minor and Certificate Program
- Gerontology Minor and Certificate Program
- Judaic Studies Minor
- Interdisciplinary Minor

Africana Studies
Family Studies
Gerontology
Healing and Humanities
Judaic Studies
Liberal Arts

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./M.D. degrees and those students wishing to apply to the UMKC School of Law through the Early Entry Law Program.

The B.L.A. degree can also be earned through the Program for Adult College Education, PACE. This program makes it possible for individuals with full-time work or home responsibilities to complete a baccalaureate degree in a reasonable time by attending class in the evenings and on weekends, by registering for the corresponding independent study courses, by connecting to online courses via the Internet, and through approved internships.

For a detailed description of this program, see the Program for Adult College Education (PACE) section in the program listings under the College's section of the catalog.

Potential for Graduate Study
Students completing the B.L.A. degree have the potential to pursue graduate study in many areas. One option is the master of arts in liberal studies, a master's degree similar in structure to the B.L.A., which continues the tradition of interdisciplinary work in the College at the intermediate level between baccalaureate and doctoral work. Students completing the B.L.A. degree who wish to continue their education at the graduate level are strongly encouraged to seek counsel from a graduate adviser in that discipline early in their undergraduate career.

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 toward the B.L.A. degree. Additionally, a maximum of 21 credit hours may be taken from any one department. Students may select humanities courses from the following departments/areas:
- Architectural Studies (ENVD).
- Art and Art History.
- Communication Studies.
- English.
- Foreign Languages.
- Philosophy.
- Theatre.
- Other courses designated specifically as Humanities.
Specific requirements include:

1. English 110 or 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 205P. Students are encouraged to complete this requirement during their sophomore year.
3. The UMKC Writing Proficiency Test (WPT). The WPT is a prerequisite for all Writing Intensive courses and should be taken after a student has completed English 225 and 45 credit hours. The WPT is also a graduation requirement for all students. Those who fail the WPT twice must take English 299; this course, which does not count toward the degree, will satisfy the WPT requirement for students who earn a C- or better in the course. The WPT is given twice each semester; the dates of the test appear regularly on the academic calendar in the Schedule of Classes.
4. A Writing Intensive course. Writing Intensive courses are designated with WI or PW following the course number. Writing intensive courses should be completed during the junior or senior year and after the completion of the three requirements above.

Natural Sciences/Math Division

All students pursuing the B.L.A. degree must complete a minimum of 21 credit hours in the natural sciences/math division. A maximum of 60 credit hours from natural sciences/math may be applied toward the B.L.A. degree. Additionally, a maximum of 21 credit hours may be taken from any one department. Students may select natural science/math courses from the following departments/areas:

- Chemistry.
- Computer Science or Information Technology.
- Environmental Science.
- Geography (physical geography only, which includes: 105, 203, 215, 314, 317, 319, 335, 336, 360, 401, 402, 404, 406, 426, 430, 435, 442, 444, 448, or 450).
- Geology.
- Mathematics.
- Physical Science.
- Physics.
- Biology.
- Other courses designated specifically as Natural Science.

Specific requirements include:

1. Mathematics (3 hours minimum). To fulfill this requirement, each student must:
   - Demonstrate mathematical competency equivalent to four units (years) of acceptable high school mathematics, beginning with Algebra I or higher; or
   - Complete Mathematics 110, 116, 125, 185 or 210.
2. Laboratory Science Course (4 hours minimum). At least one science course of the minimum 21 hours in this division must include a laboratory component.

Social Sciences Division

All students pursuing the B.L.A. degree must complete a minimum of 21 credit hours in the social sciences division. A maximum of 60 credit hours from the social sciences may be applied toward the B.L.A. degree. Additionally, a maximum of 21 credit hours may be taken from any one department. Students may select social science courses from the following departments/areas:

- Criminal Justice and Criminology.
- Economics.
- Geography (regional or cultural, which includes 105, 203, 210, 300, 309, 311, 329, 332, 340, 341, 342, 350, 351, 352, 355, 398, 409, 405, 410, 415, 435, 437, 460, 489, or 496 only).
- History.
- Political Science.
- Psychology.
- Sociology.
- Urban Planning and Design (UPD).
- Other courses designated specifically as Social Science.

Specific requirements include a Constitution Requirement (three hours minimum). Every student must fulfill the Missouri state requirement to take a course covering the United States Constitution and the Missouri State Constitution before graduation. Courses that satisfy this requirement are:

- History 101, 102, or 3600 (American History);
- Political Science 315 (American Government); or
- Social Science 105P.

Mathematics

DEPARTMENT OF MATHEMATICS AND STATISTICS

Hepha Hall, Room 206
5100 Rockhill Road
(816) 235-1641
math@umkc.edu
http://cas.umkc.edu/math

Mailing Address
University of Missouri-Kansas City
Department of Mathematics and Statistics
HH 206
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Jie Chen
Emeriti Faculty:
Professors:
Jie Chen (chair), Kamel Rekab
Associate Professors:
Richard Delaware, Noah H. Rhee, Xin Yan, Yong Zeng
Assistant Professors:
Mark A. Gamalo, Eric J. Hall, Liana Sega, Hristo D. Voulov
Instructor:
Rebecca S. Roberts

- Department Description
- Student Learning Outcomes
- Undergraduate Programs
- Mathematics Courses
- Statistics Courses

DEPARTMENT DESCRIPTION

The Department of Mathematics and Statistics offers coursework leading to the bachelor of arts and bachelor of science degrees in mathematics. The graduate degrees available are the master of science degree, with concentrations in either mathematics or statistics, and the department participates in the UMKC School of Graduate Studies Interdisciplinary Ph.D. program. Qualified students can select mathematics as the coordinating unit or a co-discipline when applying for admission or preparing their plans of study. See the School of Graduate Studies section in the Graduate Catalog for more information about the Ph.D. program.
These programs are designed to develop the student's own knowledge of mathematics or statistics, and to provide the tools and understanding necessary for the study of other scientific and quantitative fields.

The Department of Mathematics and Statistics has an institutional membership in the American Mathematical Society.

**Advising System**

Advising is on an individual basis with senior mathematics faculty members. Appointments for advising may be made by contacting the department, the undergraduate adviser, or the principal graduate adviser.

**Library Resources**

In addition to the Miller Nichols Library, the department has full access to the holdings and services of the Linda Hall Library of Science and Technology, a privately endowed institution of international prominence. The Linda Hall Library subscribes to more than 700 mathematics journals and maintains a large and growing collection of mathematics books.

**STUDENT LEARNING OUTCOMES**

**Bachelor of Arts or Bachelor of Science in Mathematics**

1. Students graduating with a B.A. or B.S. degree in Mathematics and Statistics will:
   - Have a broad understanding of several branches of mathematics and how they are related.
   - Be able to read and/or listen to documents and discussions having mathematical content, with an appropriate level of understanding, exhibit a high level of mathematical literacy.
   - Be able to read, write, understand mathematical proofs and construct mathematical proofs as appropriate.
   - Be able to reason with and apply mathematical concepts, principles and methods, while analyzing and evaluating problems (both theoretical and practical) and plan strategies for their solution.
   - Be able to clearly articulate mathematical information accurately and effectively, using a form, structure and style that suit the purpose (including written and face-to-face presentation).
   - Be able to work collaboratively with others on projects requiring mathematical knowledge and input, to function effectively in a professional workplace related to mathematics, or in a graduate program.
   - Be able to independently acquire further mathematical knowledge without guidance.

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

**UNDERGRADUATE PROGRAMS**

**Bachelor of Arts/Bachelor of Science in Mathematics**

The undergraduate curriculum in mathematics and statistics is comprised of courses in the broad areas of algebra, analysis, applied mathematics and statistics.

**Degree Requirements**

For a bachelor’s degree in mathematics, students must satisfy the general requirements of The College of Arts and Sciences and complete the program described below.

Degree requirements are 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 420, 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 mathematics department at UMKC. The bachelor of science degree in mathematics requires a minimum of 60 credit hours of combined mathematics and science coursework.

**Suggested Plan of Study**

Because of the diversity of acceptable programs available, a four-year plan of study is not suggested. Students are cautioned, however, that certain mathematics courses must be taken in the appropriate sequence. Students should consult with a department mathematics adviser to plan a program of study.

**Minor in Mathematics**

A minor in mathematics may be obtained by completing a total of 20 hours of mathematics courses at the 200-level or above, including Calculus I and II, and three courses at the 300-level or above in the department.

**Teacher Certification in Mathematics**

Certification as a middle school (grades 5-9) or secondary school (grades 9-12) Mathematics teacher in either Kansas or Missouri requires that a student complete specific requirements both in Mathematics and in the School of Education. A separate application for teacher education is required. For further information 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 Intermediate Algebra (3)
- 105 The Language Of Mathematics (3)
- 110 College Algebra (3)
- 116 Mathematics For Liberal Arts (3)
- 120 Precalculus (5)
- 125 Trigonometry (2)
- 130 Mathematics For Teachers: Number Systems (3)
- 140 Mathematics For Teachers: Elementary Geometry (3)
- 205 Mathematics For Teachers: Mathematical Immersion (3)
- 205 Discrete Mathematics (3)
- 205 Brief Calculus And Matrix Algebra (3)
- 210 Calculus I (4)
- 211 Mathematics For Teachers: Algebra (3)
- 220 Calculus II (4)
- 222 Mathematics For Teachers: Geometry (3)
- 240 Mathematics For Teachers: Calculus (3)
- 250 Calculus III (4)
- 300 Linear Algebra I (3)
- 301 On Solid Ground: Sets And Proofs (3)
- 325 Ordinary Differential Equations (4)
- 327 Introduction To Number Theory (3)
- 328 Advanced Analysis I (3)
- 330 Partial Differential Equations (3)
- 331 Introduction To Complex Variables (3)
- 410 Modern Algebra (3)
- 412 Advanced Analysis II (3)
- 413 Mathematics For Secondary Teachers: Algebra And Analysis (3)
- 420 Linear Algebra II (3)
- 421 Mathematics For Secondary Teachers: Geometry (3)
- 430 Numerical Analysis I (3)
- 440 Numerical Analysis II (3)
- 444 Modern Geometries (3)
- 460 History Of Mathematics (3)
- 480 Special Topics (1-3)

**STATISTICS COURSES**

- 234 Mathematics For Teachers: Probability And Statistics (3)
Military Science

MILITARY SCIENCE

5322 Rockhill Road
(816) 235-1152
armyrrotc@umkc.edu

Mailing Address
University of Missouri-Kansas City
Department of Military Science
5100 Rockhill Road
Kansas City, MO 64110-2499

Assistant Professors:
(USAR) Pamela Morgan

Program Description
The Army Reserve Officers Training Corps provides college-trained officers for the U.S. Army and Army Reserve. With the exception of a five-week paid summer camp, all instruction is presented on campus. Various field training exercises are conducted to further enrich students’ leadership skills.

A commission as a second lieutenant in the U.S. Army, Army Reserve or National Guard is awarded to individuals who have successfully completed the ROTC program and obtained a baccalaureate degree from UMKC. Currently, college graduates who are commissioned through ROTC are placed on either active duty, the reserves or National Guard duty, depending on their desires and on the needs of the service at the time of graduation. The length and type of obligation will depend on the scholarship awarded.

Two-Year Instruction
ROTC instruction usually is presented over the four years of traditional full-time study. This also allows commissioning at the same time graduation requirements are met. However, a two-year program is available for students who were unable to take the first two years of instruction and want to earn a commission.

Financial Assistance
Financial assistance is available through the U.S. Army Scholarship Program. Two-, three- and four-year scholarships are awarded each year to selected students who are enrolled or will enroll in the Army ROTC program. The scholarships provide payment of tuition, fees, textbooks and a monthly tax-free payment of $200 for the duration of the scholarship, not to exceed 10 months for each year of the scholarship. These scholarships are available for both undergraduate and graduate students. Non-scholarship contracted cadets in the advanced portion of ROTC receive $200 each month, not to exceed 10 months per year for two years. Students are furnished free textbooks for military science classes.

The Simultaneous Membership Program (SMP) allows students to be a member of a National Guard or Reserve unit while enrolled in ROTC. Advanced course SMP students receive E5 pay, plus $200 per month from ROTC, plus any Active Duty GI Bill entitlement.

Department of Military Science Curriculum
All students are eligible to take Military Science 100- and 200-level courses without any military obligation. However, Military Science 300- and 400-level courses are reserved for students who have a signed contract with ROTC to become an officer upon graduation.

Military Science Courses
- 100 Introduction To Military Operations (1)
- 105 Introduction To Survival Skills And Rappelling (1)
- 201 Introduction To Military Leadership And Communication (2)
- 202 Military Leadership & Communication II (2)
- 205 Reserve Officer Training Corps (3)
- 210 Map Reading And Land Navigation (1)
- 220 Urban And Field Survival Skills (1)
- 300 Leadership And Management I (3)
- 310 Small Unit Leadership And Tactics (3)
- 400 Leadership And Management II (3)
- 410 Army Management And Organizational Systems (3)
- 497 Leadership And Management Practicum - Directed Study (1-3)

PACE/Program for Adult College Education

PACE/PROGRAM FOR ADULT COLLEGE EDUCATION

Scofield Hall, Room 104
711 E. 51st Street
(816) 235-1588
Fax: (816) 235-5760
pace-prog@umkc.edu
http://cas.umkc.edu/pace

Mailing Address
University of Missouri-Kansas City
Program for Adult College Education
SH 194
5100 Rockhill Road
Kansas City, MO 64110-2499
PROGRAM DESCRIPTION

The Program for Adult College Education (PACE) provides an alternative for students who have difficulty pursuing a bachelor’s degree due to employment, family responsibilities or other obligations. PACE provides a nontraditional method for earning a bachelor’s degree through courses in a special weeknight, weekend and independent study format. PACE courses are normally presented in 12-hour blocks, arranged by theme or issue. There are also numerous Internet, web-assisted and second eight week courses.

Bachelor of Liberal Arts Degree (B.L.A.)

The B.L.A. with or without a minor/concentration is the most popular degree offered through PACE. This degree program allows enhanced flexibility in selection of academic areas of study for students whose aspirations are not served by a traditional major. Research has shown that individuals with the breadth of knowledge and skills provided by a liberal arts education are in demand by employers. The B.L.A. provides:

- Broad knowledge and understanding of the natural sciences, social sciences, arts and humanities.
- Maximum flexibility in course selection.
- Critical thinking and problem-solving abilities.
- Personal satisfaction and self-esteem.
- Multicultural issues awareness.
- Ability to adapt and work as a team.
- Increased awareness of values and ethical questions.
- Interpersonal skills.
- Written and oral communication skills.

Bachelor of Liberal Arts Degree (B.L.A.) with a Minor/Concentration Area

The B.L.A. with a minor/concentration is an area of study designed to allow all the advantages of a liberal arts education while providing an indication of a student’s special area of interest. The B.L.A. with a minor/concentration is often reflected on official transcripts. However, typically it is necessary for students pursuing a minor to take a required course outside of the PACE curriculum. Concentrations are informal academic designations and are not reflected on official transcripts. However, successful completion of concentration requirements is recognized by a certificate. Requirements are typically established jointly between PACE and the respective academic department within the College of Arts and Sciences. Typically, 18 credit hours are required in related interdisciplinary fields to qualify for a concentration. Some concentrations may require the combination of PACE and regular departmental coursework. However, the following concentration areas can be primarily obtained through PACE course offerings:

- American Studies
- Black Studies
- Chemistry
- Commercial Economics
- Communication Studies
- Computer Media & Technology
- Criminal Justice and Criminology
- Disability Studies
- Economics
- English
- Environmental Studies
- Film Studies
- History
- Hospitality Studies
- Political Science
- Psychology
- Sociology
- Spanish
- Visual Technology and Art Design

Bachelor of Arts or Bachelor of Science Majors and Minors in Conjunction with PACE

Students can meet B.A./B.S. general degree requirements through the PACE program and, in conjunction with designated disciplines, pursue a major or minor. Degrees associated with an academic unit’s evening division are recommended for this process. Students should refer to the associated departmental requirements in the UMKC undergraduate catalog and consult a PACE Adviser.

Entry into Graduate/Professional Degree Programs and PACE

The PACE Program provides students the ability to achieve rigorous academic preparation for graduate and professional degree programs. The B.L.A. is recognized as an appropriate degree for a number of graduate/professional programs at UMKC and elsewhere (e.g., Master of Arts in Liberal Studies, Accounting, Law, Education, Public Administration, Business Administration, Medicine and Health degrees). Many PACE students continue their studies in graduate degree programs.

Entry into Certificate Programs and PACE

PACE also participates in certificate programs such as those offered in disability studies, 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. Students wishing to combine PACE coursework with other academic programs and degrees should consult an academic adviser in the College of Arts and Sciences advising office or the PACE Student Services Coordinator.

CURRICULUM

PACE Blocks
I. The Social Sciences

SOCSC 101P The Social Environment
SOCSC 102P Introduction to Social Science
SOCSC 103P Dynamics of Western Civilization
12 hours of social science
SOCSC 102P meets constitution requirement

II. Rites of Passage: Individuals Through the Ages

HUMN 104P Themes of Individuality
HUMN 105P Literature, Composition and Critical Thinking
HUMN 106P The Individual in Literature, Philosophy and Art
12 hours of humanities
HUMN 106P meets ENGL 110 requirement
For B.A./B.S., HUMN 106P meets philosophy requirement

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 100P Basic Chemistry
CHEM 102P Experimental Basic Chemistry
CHEM 105P Special Projects in Chemistry
12 hours of natural science
CHEM 105P meets laboratory requirement

IV. Myth and Meaning

HUMN 201P The Many Lives of Dr. Faust
HUMN 203P The Meaning of the American Experience
HUMN 209P American Dreams: Four Major American Myths
12 hours of humanities
HUMN 209P meets ENGL 225 requirement
For B.A./B.S., HUMN 209P meets literature requirement

V. Computer Information and Technology

CIT 105P Foundations of Computing and Problem Solving
CIT 106P Computers: Their Uses and Impact
COMS 260P Introduction to Web Communications
For B.A./B.S., CIT 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 201P Introduction to Economics I
ECON 202P 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 407F Bureaucratic Politics
POLSC 407P Political Leadership
12 hours of Social science, junior-senior level
POLSC 407P 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.A.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 453 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 461 Interpreting Past and Present Rhetorical Practices
HUMN 462 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 402Z Special Topics: Kansas City Labor History
ECON 486 Labor Economics

SOCSC 456C Readings in Labor Economics

4 hours 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 408 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 408 gives 1 hour of humanities credit
NATSC 430PC gives 3 hours credit in natural sciences
PHIL 401PC 3 hours credit in philosophy
SOCSC 411P 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 Cultures
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 409P 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

For B.A./B.S., PSYCH 406P meets fine arts requirement

XVIII. Macroeconomics Block

ECON 397CP Current Macroeconomics Issues
ECON 417 Money and Banking
ECON 419P Macroeconomic Analysis
ECON 408 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 471 Criminal Behavior in the United States
CJC 575 White Collar Crime
12 hours social sciences; 9 hours junior-senior level

XXI. The Family
PSYCH 322P Child Psychology
SOCIOL 110P Families and the Life Course
6 hours social sciences; junior-senior level

XXII. Family Studies
HUMAN 453P Images of the Family in Art and Literature
PSYCH 453P Family Life Cycle: A Developmental Approach to Understanding Family Dynamics
HIST 454P Historical Perspectives of the Family in Christian, Judaic and Islamic Cultures
4 hours humanities, 8 hours social sciences; junior-senior level

XXIII. Anthropology
SOCIOL 308P Controversial Issues from an Anthropological Perspective
INTDIS 308P Introduction to Physical Anthropology
SOCIOL 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 205P 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 400I Special Topics: Summer Field Trip/Jamaica
A&S 490 Special Topics: Readings in Hospitality Administration
COMS 345P Communication in Organizational Settings
ECON 313P Administration in the Service Industry
ECON 343P Resource Acquisition & Distribution in the Hospitality Industry
ECON 323P Legal and Social Issues of the Hospitality Industry
ECON 333P Commercial Economic Aspects of the Hospitality Industry
SOCSC 356P Technology Policies in Hospitality
SOCSC 375P Contemporary Issues in the Service Industry
SOCSC 462P Human Resources in the Service Industry
SOCSC 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. Global Studies
SOCSC 456P In-Depth Country Study
SOCSC 477P First Nations and Survival
SOCSC 422P Women, Men and Development in a Cultural Context
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

XXIX. Religious Studies
(Courses offered will vary each semester.)

XXX. Environmental Studies
(Courses offered will vary each semester.)
POLS 435P Politics of the Environment
ENVS 153P Understanding the Earth
ENVS 170E Understanding the Earth Laboratory
GEOG 103 Descriptive and Synoptic Meteorology
GEOG 207 General Geology
GEOG 209 General Geology Laboratory
XXXI. Nations and Their Society
  SOSC 301P Varieties of People and Society
  SOSC 302P Power and Authority
  SOSC 303P National Perspectives of Capitalism and Liberal Society
  12 hours of social science; junior-senior level

XXXII. Women's Culture, Media and Theory in the Age of Feminism
  HUMN 375P Research in Women's Culture
  HUMN 376P Textual Representation of the Feminine: "Scribbling Women"
  HUMN 377P Growing Up Female with the Mass Media
  12 hours of humanities; junior-senior level

XXXIII. Physical Science
  PHYS 301P Scientific Approaches to the Physical Worlds
  PHYS 302P Concepts of Chemistry, Earth Sciences and Astronomy
  PHYS 303P Applications of Physical Science
  12 hours of natural science; junior-senior level

XXXIV. American Material Culture
  AMST 340P American Material Culture - The 20th Century
  AMST 341P American Material Culture - Objects and Images
  AMST 342P American Material Culture - Museums
  May be used as humanities or social science, course by course, as needed by student; junior-senior level

XXXV. Addiction Counseling
  PSYCH 270P Compulsive Gambling and Other Addictions
  A&S 365P Introduction to Substance Abuse Counseling
  3 hours social science; 3 hours junior-senior level

XXXVI. Information Technology
  CIT 310P Web Design and Development
  CIT 315P Web Graphics and Multimedia
  CIT 420P CGI Perl
  9 hours natural science; junior-senior level

XXXVII. News and Media Analysis
  COMST 311 Radio and Television Reporting
  ENGL 313WI Reporting
  6 hours humanities; junior-senior level

XXXVIII. Film Studies
  (Courses offered will vary each semester.)
  COMST 376 History of the Film Industry
  COMST 385 Contemporary Media Topics
  COMST 405A Tutorial in Film History
  COMST 405K Introduction to Screenwriting
  COMST 405M Advanced Screenwriting
  COMST 405P Introduction to Film
  COMST 405Q Film Analysis
  COMST 405R Major Film Genres

XXXIX. Psychology
  A&S 260 Special Topics: The Principles of Psychology of Influence
  PSYCH 210 General Psychology
  PSYCH 393 Abnormal Psychology
  6 hours social science and 3 hours arts and science; 3 hours junior-senior level

XL. Vulnerable Populations
  INTDIS 380P People with Special Needs: Educational Planning
  INTDIS 381P People with Special Needs: Career Exploration
  INTDIS 382P People with Special Needs: Disability Service Settings
  12 hours social science; junior-senior level

XLI. American Concept of Evil
  AMST 410P American Concept of Evil: Historical and Cultural Contexts
  AMST 411P American Concept of Evil: Readings in Primary Sources
  May be used as humanities or social science, course-by-course, as needed by student; junior-senior level

XLII. Meaning of Masculinity
  SOC 381P Everyday Masculinity
  INTDIS 485P The Meaning of Masculinity in Contemporary U.S. Culture
  INTDIS 486P Artful Man Embodied: Cultural Icons of Masculinity
  4 hours Sociology, 8 hours humanities or social science as needed; junior-senior level
XLIII. New Media Services

- COMST 431P Multimedia and New Media Streaming
- COMST 432P New Media Writing for the Web
- COMST 433P Shooting Digital Video for the Web and New Media
- COMST 434P Web Radio

12 hours humanities; junior-senior level

Additional Courses Offered Through PACE

Humanities

- HUMN 340PW The World Of Advertising
- HUMN 341PW Professional Communications
- HUMN 310PW Turning Life Into Stories

Natural Sciences

- MATH 116 Mathematics for Liberal Arts
  (For B.L.A./B.A., meets mathematics requirement)
- NATSC 300P Physical Measurements
- NATSC 175E 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 201P and 202P
- ECON 407P Microeconomics
- SOCSOC 207P The Economics of Public Process II
- HIST 107P American History Since 1877
  (meets constitution requirement)
- SOCSOC 240P Foundations in Social Science
  (For B.A./B.S., meets SOCSOC 210 requirement)

Interdisciplinary

- INTDIS 529P Brain and Behavior
  2 hours social science and 2 hours natural science

AMERICAN STUDIES (AMST)

- AMST 301P American Studies:Is/Tutorial:Themes In The American Popular Arts (4)
- AMST 241P Survey Of American Studies (4)
- AMST 342P Methods & Problems In American Studies (4)
- AMST 343P American Material Culture: The 20th Century (4)
- AMST 344P American Material Culture: The 1950s (4)
- AMST 345P American Material Culture: Objects And Images (4)
- AMST 346P American Material Culture: Museums (4)
- AMST 410P The American Conception Of Evil: Historical And Cultural Contexts (3)
- AMST 411P The American Conception Of Evil: Readings In Primary Sources (3)

ART (ART)

- ART 101P Topical Studies (3)

ARTS AND SCIENCES

- 170P Special Topics (1-4)
- 175P Special Topics (1-4)
- 280A Special Topics (1-4)
- 285P Special Topics (1-4)
- 355P Introduction To Substance Abuse Counseling: Theory And Practice (3)
- 400A Special Readings/Topics (1-6)
- 400B Special Readings/Topics (1-6)
- 400C Special Readings/Topics (1-6)
- 400D Special Readings/Topics (1-3)
- 400E Special Readings/Topics (1-3)
- 400F Special Readings/Topics (1-3)

CHEMISTRY (CHEM)

- 180P Basic Chemistry (4)
- 181P Experimental Basic Chemistry (4)
- 183P Special Projects In Chemistry (4)

COMMUNICATION AND INFORMATION TECHNOLOGY (CIT)

- 110P Foundations Of Computing And Problem Solving (4)
- 115P Computers: Their Uses And Impact (4)
- 310P Web Design & Development (3)
- 315P Web Graphics & Multimedia (3)
- 420P Cgi Perl (3)

COMMUNICATION STUDIES (COMS)

- COMS 254P Communication Competence: Theory And Practice (4)
- **260P** Introduction To Web Communications (4)
- **315P** Communication In Organizational Settings (3)
- **322P** Broadcast Management (3)
- **323P** Multimedia & New Media Streaming (3)
- **422P** New Media Writing For The Web (3)
- **423P** Shooting Digital Video For The Web And New Media (3)
- **424P** Web Radio (3)
- **318P** Electronic Journalism (3)

**Criminal Justice and Criminology (CJC)**
- **266P** Juvenile Justice System (3)
- **323P** Ethical And Controversial Issues In Policing (3)
- **375P** White Collar Crime (3)

**Economics (ECON)**
- **201P** Introduction To Economics I (3)
- **202P** Introduction To Economics II (3)
- **203P** Principles Of Economics (3)
- **204P** Macroeconomic Analysis (3)
- **205P** Microeconomic Analysis (3)
- **312P** Money And Banking (3)
- **322P** Financial Analysis And The Economy (3)
- **365P** Art Markets (3)
- **375P** Current Macroeconomic Issues (3)
- **367P** Labor Economics (3)

**English (ENGL)**
- **352P** Critical Approaches To The Short Story (4)
- **353PW** Critical Review & Evaluation Of Fiction & Film (Writing Intensive) (4)
- **354P** Masterpieces Of Fiction (4)
- **460PW** Written Discourse: Speaking, Writing, Composing (4)

**History (HIST)**
- **102P** American History Since 1877 (3)
- **201P** The Works Of Western Man (4)
- **202P** America In The Machine Age (4)
- **203P** The City: Past And Present (4)
- **402P** Special Studies (1-3)
- **470P** Ancient World: The Social History Of The Ancient World (4)
- **471P** Ancient World: The Political Structure Of The Ancient World (4)
- **472P** Ancient World: The Cultural / Intellectual Dimension Of Ancient Civ (4)

**Humanities (HUMN)**
- **104P** Indep Study/Tutorial: Spec Applications: Themes Of Individuality (4)
- **105P** Literature, Composition & Critical Thinking: Individual & Society (4)
- **106P** The Individual In Literature, Philosophy And Art (4)
- **201P** The Many Lives Of Dr. Faust (4)
- **202P** The Meaning Of The American Experience (4)
- **203P** American Dreams: Four Major American Myths (4)
- **204P** International Cultures (4)
- **205P** World Of Advertising (4)
- **206P** Research In Women's Culture (4)
- **207P** Textural Representation Of Feminine (4)
- **208P** Growing Up Female With Mass Media (4)
- **401P** The Culture Of The Working Class: Independent Study (4)
- **402P** Professional Communication (4)
- **403P** Images Of Aging In Literature (1)
- **404P** Turning Life Into Stories (4)
- **405P** Images Of The Family In Art And Literature (4)
- **406P** Interpreting Past And Present Rhetorical Practices (4)
- **407P** Analyzing Modern Discourse Communities (4)
- **408P** Perceptions & Images Of Disabilities In Literature And Film (4)

**Integrated Studies (INTG)**
- **401P** The Creative Source: Concepts And Actions (4)
- **402P** Turning Points In The History Of Ideas (4)
- **403P** Major Intellectual Developments In Western History (4)
- **404P** Integrative Seminar In Disability Studies (1)
- **405P** Development Disabilities: Partners In Policymaking (8)

**Interdisciplinary Studies (INTDIS)**
- **201P** Energy, Technology And Society (4)
- **202P** Energy Science (4)
- **203P** Social, Economic And Political Influences On Energy (4)
- **204P** Work, Labor And Society (4)
- **205P** Liberalism And The Technological Society (4)
- **206P** Political And Social Aspects Of A Technological Society (4)
- **301P** Introduction To Physical Anthropology (4)
- **302P** Global Political And Social Issues (4)
- **303P** Interdisciplinary Perspectives On Aging: Readings And Film (4)
- **304P** People With Special Needs: Education Planning (4)
- **305P** People With Special Needs: Career Exploration (4)
- **306P** People With Special Needs: Disability Service Settings (4)
- **307P** The Natural Life Cycle (4)
- **308P** Literature And Life Sciences (4)
- **309P** Stages Of Growth (4)
- **310P** Brain And Behavior (4)
- **401P** The Meanings Of Masculinity In Contemporary U.S. Culture (4)
- **402P** Artful Man Embodied: Cultural Icons Of Masculinity (4)

**Natural Science (NATSC)**
- **101P** Changing Life On Earth (4)
102P Fundamentals Of Life Science (4)
103P Applications Of Life Sciences (4)
108P Physical Measurements (4)
175P Nature Of Science (4)
255P Introduction To Quantitative Methods (3)
410PC CC: Biological And Ethical Issues In Aging (3)

PHILOSOPHY (PHIL)
401PC CC: Biological And Ethical Issues In Aging (3)

PHYSICAL SCIENCE (PHYSC)
- 301P Scientific Approaches To The Physical Worlds (4)
- 302P Concepts Of Chemistry, Earth Sciences And Astronomy (4)
- 303P Applications Of Physical Science (4)

POLITICAL SCIENCE (POLSC)
- 358 Global Political And Social Issues (4)
- 407P Politics Of Representation (4)
- 409P Bureaucratic Politics (4)
- 435P Politics Of The Environment (4)

PSYCHOLOGY (PSYCH)
- 270P Compulsive Gambling And Other Addictions (3)
- 407P Developmental Disabilities And Community Life (4)
- 490P Perceptions & Images Of Disabilities In Literature And Film (4)

SOCIAL SCIENCE (SOCSC)
- 210P Foundations Of Social Science (3)
- 303P Power and Authority (4)
- 305P Economic Principles And Applications Of Accounting (1)
- 306P The Environmental Movement: Roots And Actions (4)
- 308P Technology Policies In Hospitality (4)
- 375P Contemporary Industrial Society (3)
- 376P Contemporary Issues In The Service Industry (4)
- 395B The Economics Of The Law (1)
- 395D Economics Of Energy (1)
- 395E Economics Of Poverty (1)
- 397A The Economics Of Public Process I (1)
- 397B The Economics Of Public Process II (1)
- 407P Industrial Organization Applications (4)
- 411P Aging In American Society: Past And Present (4)
- 433P Labor History & Economic Policy (3)
- 455P In-Depth Country Study (4)
- 456P First Nations And Survival In Latin America (4)
- 458P Women, Men And Development In A Cultural Context (4)
- 459P Human Resources In The Service Industry (4)
- 460P Internship In Hospitality Studies (4)
- 460C Readings In Labor Economics (1)

SOCIOLOGY (SOCIOL)
381P Everyday Masculinities (4)

Philosophy

DEPARTMENT OF PHILOSOPHY
Cocke Hall, Room 222
5121 Rockhill Road
(816) 235-1331
Fax: (816) 235-2819
philosophy@umkc.edu
http://cas.umkc.edu/philosophy

Mailing Address
University of Missouri-Kansas City
Department of Philosophy
CH 222
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Wayne Vaught
Professors Emeriti:
Solomon E. Levy, Hans W. Uffelmann (School of Medicine), Edward Walter
Professors:
Bruce Bubacz (Curators’ Distinguished Teaching, School of Law), Henry R. Frankel, George D. Gale Jr.
Associate Professor:
Wayne Vaught (chair and School of Medicine)
Assistant Professors:
Clancy Martin, James Sheppard (architecture, urban planning and design), Dana Tulodzieki
Undergraduate Adviser:
James Sheppard

- Department Description
- Career Implications of the Degree
- Departmental Activities
  - Advising System
  - Special Services
  - Scholarly Presentations
- Student Learning Outcomes
DEPARTMENT DESCRIPTION
The Department of Philosophy offers a program of study leading to the bachelor of arts degree in philosophy. Courses are offered that develop critical and analytical skills, acquaint students with the history of philosophy and apply philosophy to issues of living.
Students who major in other disciplines can gain special insight into their majors with a philosophy minor. Focused minors are available for students who major in the social and health sciences, the humanities, computer science and the performing and fine arts.

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

ADVISING SYSTEM
Although all faculty members of the department are available for student advising, the department has an undergraduate adviser to whom questions about the philosophy program should be directed.

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

SCHOLARLY PRESENTATIONS
Many visiting philosophers present scholarly papers to the Philosophy Department during the academic year. In addition, organizations such as the Kansas City Area Philosophical Association, the Central States Philosophical Association and other professional societies occasionally meet in Kansas City. Students are cordially invited to attend these activities.

STUDENT LEARNING OUTCOMES
Bachelor of Arts in Philosophy

Students graduating with a baccalaureate degree in philosophy will:
- Have an understanding of the central figures and themes in the history of philosophy.
- Possess the critical reasoning skills necessary to effectively analyze and critique abstract concepts and arguments.
- Be able to develop and defend philosophical arguments, both orally and in writing.
- Be able to apply critical reasoning skills in a wide range of career settings.

REQUIREMENTS FOR THE MINOR
Philosophy minors are required to complete a total of 18 credit hours, including Philosophy 210 or 222 (three hours), Philosophy 310WI and 320WI (six hours), and any 300- or 400-level philosophy courses (nine hours). Students must achieve a grade of C or better in a course for it to count toward the minor. Students can work with the departmental adviser to tailor focused minors that coordinate with their major.

PHILOSOPHY COURSES
- 210 Foundations Of Philosophy (3)
- 221 Contemporary Moral Issues (3)
- 222 Foundations Of Logic And Scientific Method (3)
- 300C Cluster Course: Controversy And Choice In Life And Science (3)
- 310WI Ancient Philosophy (3)
- 315 Logic And Methodology In The Health And Social Sciences (3)
- 319WI Descartes To Hume (3)
- 321 Ethics (3)
- 322 Aesthetics (3)
- 323 Epistemology: Theories Of Knowledge (3)
- 324 Metaphysics: Theories Of Reality (3)
- 325 Philosophy In The Middle Ages (3)
- 326 American Philosophy (3)
- 327 19Th-Century Philosophy (3)
- 328 Philosophy Of Religion (3)
- 329 Existentialism (3)
- 331 Social And Political Philosophy (3)
- 332 Philosophy Of Science (3)
- 333 Philosophy Of Mind (3)
- 334 Philosophy Of Language (3)
- 335 Philosophy Of History (3)
- 336 Philosophy Of Biology (3)
- 337 Philosophy Of Law (3)
- 338 Case Studies In The Methodologies Of Science (3)
- 339 Current Issues In Bioethics (3)
- 340 Environmental Ethics And Policy (3)
- 341 Interdisciplinary Studies: Cluster Course Offerings (3)
- 400C Cluster Course: Aesthetic Issues In The Arts (3)
- 400DD Cluster Course: Issues In Death And Dying (3)
- 421 Symbolic Logic (3)
- 422 Art, Aesthetics And Society (3)
- 423 History Of Aesthetics (3)
- 431 Plato (3)
- 432 Aristotle (3)
- 433 The British Tradition In Philosophy (3)
- 434 Kant (3)
- 435 20Th-Century Philosophy (3)
- 436 Recent Ethical Theories (3)
- 437WI Ethics And Government (3)
- 480 Selected Topics (1-3)
- 480A Selected Topics (1-3)
- 480B Selected Topics (1-3)
- 490 Special Topics And Readings (1-3)
- 490A Special Topics And Readings (1-3)
DEPARTMENT OF PHYSICS

Robert H. Flarsheim Science and Technology Hall
5110 Rockhill Road, Room 257
(816) 235-1604
Fax: (816) 235-9221
hinkkf@umkc.edu
http://cas.umkc.edu/physics

Mailing Address
University of Missouri-Kansas City
Department of Physics
RHFH 257
5110 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Michael B. Kruger
Curators' Professor:
Wai-Yim Ching
Professors:
Y.C. Jerry Jean (chemistry and physics), Michael B. Kruger (chair), Richard D. Murphy, Da-Ming Zhu (graduate director)

Professors Emeriti:
Paul J. Bryant, James M. Phillips, Marvin R. Querry (Curators' Professor), George A. Russell (president emeritus, University of Missouri), John R. Urani

Associate Professors:
Fred M. Leibside (undergraduate director), Elizabeth P. Stoddard, Jerzy M. Wrobil

Associate Professors Emeriti:
James R. Beacham, Richard C. Waring

Assistant Professors:
Anthony N. Caruso, Daniel H. McIntosh, Donald J. Prisour Jr.

Lecturers:
Robert C. Riggs

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. Additionally, the department participates in an interdepartmental major in history and philosophy of science, along with the departments of philosophy, mathematics and history.

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 the appropriate coursework. 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 students carry over the reasoning skills and problem-solving strategies developed by physics to virtually every field of endeavor.

There are job opportunities in physics for holders of degrees at all levels. With a bachelors degree, the graduate is more likely to:

- Teach science in high school rather than in a college or university.
- Engage in development or applied research rather than in basic research.
- Work in an industrial or government laboratory rather than in a fundamental research laboratory.
- Work in many other areas that use the rigorous training and problem-solving skills of a physics major.

Graduates with physics degrees who enter fields other than science and technology generally find that the rigorous training they receive in a physics program helps their career advancement.

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.

**STUDENT LEARNING OUTCOMES**

**BACHELOR OF ARTS OR SCIENCE IN PHYSICS**

Students graduating with a baccalaureate degree in Physics will:

- Have a functional knowledge of the basic areas of physics.
- Be able to integrate their knowledge with critical thinking skills in order to become problem solvers.
- Be able to clearly articulate scientific information, both orally and in writing.
- Be able to effectively use the scientific literature.

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

**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>Course</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>Total</td>
<td>12</td>
</tr>
<tr>
<td>Chemistry 211 and 211L</td>
<td>5</td>
</tr>
<tr>
<td>Chemistry 212R and 212LR</td>
<td>5</td>
</tr>
<tr>
<td>Total</td>
<td>10</td>
</tr>
<tr>
<td>Physics 240 and 250</td>
<td>10</td>
</tr>
<tr>
<td>Physics 310 and 311</td>
<td>6</td>
</tr>
<tr>
<td>Physics 330</td>
<td>3</td>
</tr>
<tr>
<td>Physics 350</td>
<td>3</td>
</tr>
<tr>
<td>Physics 385L and 395L</td>
<td>6</td>
</tr>
<tr>
<td>Physics 410</td>
<td>3</td>
</tr>
<tr>
<td>Physics 420</td>
<td>3</td>
</tr>
<tr>
<td>Physics 460 and 461</td>
<td>6</td>
</tr>
<tr>
<td>Physics 472</td>
<td>3</td>
</tr>
<tr>
<td>Any two of the following laboratories:</td>
<td></td>
</tr>
<tr>
<td>Physics 425LW</td>
<td>3</td>
</tr>
<tr>
<td>Physics 445LW</td>
<td>3</td>
</tr>
<tr>
<td>Physics 475LW</td>
<td>3</td>
</tr>
<tr>
<td>Physics 480W</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>49</td>
</tr>
</tbody>
</table>

**SUGGESTED PLAN OF STUDY FOR B.S. IN PHYSICS**

**Freshman Year**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 210-220 8</td>
</tr>
<tr>
<td>Chemistry 211, 211L, 212R and 212LR 10</td>
</tr>
<tr>
<td>Physics 240 5</td>
</tr>
<tr>
<td>Gen. Ed. Req. / Electives 9</td>
</tr>
<tr>
<td>Total 32</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 250 4</td>
</tr>
<tr>
<td>Physics 250 5</td>
</tr>
<tr>
<td>Physics 330 3</td>
</tr>
<tr>
<td>Physics 350 3</td>
</tr>
</tbody>
</table>
Junior Year
Physics 310 and 311 6
Physics 395L (fall of even years) or
Physics 420 (fall of odd years) 3
Physics 450 (fall of even years) or
Physics 410 (fall of odd years) 3
Physics 425LW (winter of even years) or
Physics 413 (winter of odd years) 3
Physics 445L (winter of even years) or
Physics 475L (winter of odd years) 3
Gen. Ed. Req. / Electives 14
Total 32

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

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

B.A. Curriculum Requirements
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.

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.

Political Science

Department of Political Science
Department Description

The Department of Political Science offers courses leading to the degrees of bachelor of arts and master of arts.

The undergraduate major in political science is based on the principles of a liberal arts education, with special attention devoted to philosophies, institutions, processes and behavioral aspects of politics.

Undergraduate Admissions

Students planning to major or minor in political science should declare their choice officially, and consult the department chair for program advice as early as possible.

Career Implications of the Bachelor's Degree

Political science, in addition to serving as an excellent core discipline for a liberal arts education, may also serve as vocational and professional preparation for students whose interest and abilities might lead them into the following areas:

- Law school and legal careers
- Electoral politics
- Government service
- Not-for-profit and public-interest organization employment
- Business and finance
- Teaching and research
- Public and private political research and consulting services
- Electronic and print journalism

Teacher Certification in Social Studies

Certification as a middle school (grades 5-9) or secondary (grades 9-12) social studies teacher in either Kansas or Missouri requires that a student complete specific requirements in History, Political Science, Economics, Geography, Behavioral Sciences and the School of Education. A separate application for teacher education is required. For further information about the program, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

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

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

Internships
The department has an active internship program. Information on local, regional, national and international programs of interest to undergraduates in political science is posted on departmental bulletin boards and is available from faculty members. Credit is given for successful completion of internship programs approved by the department.

Special Services
The department occasionally invites distinguished political scientists from other universities to visit UMKC to provide lectures for its students and to meet with them for questions and discussions. Additionally, when it is appropriate, public officials, civil servants, foreign officials and others active in public affairs speak to political science classes as part of the academic program.

Independent study in the form of tutorials is available in two courses: 497 and 498 (depending on student qualifications). In either case, without exception, the student must propose a topic for study, have the approval of the adviser and have the written consent of the instructor with whom the tutorial is to be taken before registration for the course. UMKC Honors Program participants may take any course in the department for honors credit by making special arrangements, involving extra work, with the instructor.

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

Special Scholarships
Each year outstanding graduating seniors are selected to receive the department's highest honors, the Ruth L. Gant Memorial Scholarship and the Cornelius Roach Scholarship.

Randall L. Miller Scholarship. Established 2005 in memory of Randall Miller, this $1,500 award will be given to students who are both citizens of Missouri and come from a household with an annual income of $40,000 or less. Full guidelines are still being developed.

In addition, Roach Book Awards -- intended to help defray the costs of books -- are presented each semester, when resources permit, to declared political science majors who meet departmental standards of excellence.

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

The success of the program is measured by the large number of students who go into outstanding professional and graduate schools. Additionally, we use the Major Field Exam to evaluate our program. All students write a Senior Thesis in the Senior Seminar. That thesis is presented to the rest of the department and defended before them.

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)
- 220 Introduction To Comparative Politics (3)
- 260 Interdisciplinary Studies: Cluster Course (3)
- 260C Cluster Course: History Of Russian Culture (3)
- 291 Western Political Philosophy (3)
- 295 Political Research And Analysis (3)
- 310 Introduction To Comparative Politics (3)
- 315 Politics Of The Developing Nations (3)
- 315A Survey Research And Analysis (3)
- 315B International Relations (3)
- 315C The United Nations: Politics And Economics (3)
- 316 Politics, Parties And Pressure Groups (3)
- 319 Public Opinion And Voting Behavior (3)
- 319S Parliamentary Systems (3)
- 319T Comparative Politics: Techniques Of Social Control (3)
- 321 Mass Media And American Politics (3)
- 331 Politics In The American States (3)
- 331A Local Governments (3)
- 331B Public Policy (3)
- 331C Terrorism And Political Violence (3)
- 331D Revolutionary Origins Of The Modern State (3)
- 331E Political Psychology (3)
- 331F Campaigns And Elections (3)
- 332Q Racial & Ethnic Politics (0-3)
- 332T Nationalism And Ethnic Conflict (3)
- 332J State And Local Government (0-3)
- 332M American Foreign Policy (3)
- 332N Religion And Politics (3)
- 333Q The Theory Of Democracy (3)
- 333T American Political Thought (3)
- 336 The Politics Of Social Security (3)
- 336S Jurisprudence (3)
- 336T The Politics Of Sex And Gender (3)
- 336U Introduction To The Trial Process (3)
- 347C Crime And Civil Liberties (3)
- 347D Constitutional Law: The Federal System (3)
- 347E Constitutional Law: Civil Liberties (3)
- 347F Chinese Politics (3)
- 347G Politics In Russia (3)
- 347H Politics In Eastern And Central Europe (3)
- 347I European Politics (3)
- 347J Politics Of The Middle East (3)
- 347K Labor Law (3)
- 347L Political Science And Politics (1-6)
- 347M Political Science And Politics (1-6)
- 347N Political Science And Politics (1-6)
- 347O Political Science And Politics (1-6)
- 347P Political Science And Politics (1-6)
PRE-LAW PROGRAM

Prelaw students should select a curriculum that hones and develops superior writing skills, along with excellent oral communication, logical reasoning, and critical reading skills.

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
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 prior to completing 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 major, and upper-level requirements, leaving only elective credits to receive an undergraduate degree, the student may apply to the law school at UMKC. If accepted, the student can start law school without having actually received an undergraduate bachelor’s degree. The student will receive the undergraduate degree after earning the requisite amount of law school credits necessary to fulfill the remaining amount of undergraduate elective credits (up to 30 hours).

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.
- 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 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 (Media Law)
- Criminal Justice 326 (The Supreme Court and the Criminal Process), 353 (Legal Aspects of Policing), 435WI (Gender and Law)
- Economics 416 (Law and Economics)
- Geography 3101 (Landscape, Language, Literature, and Law)
- History 3609 (Constitutional History of the United States)
- Philosophy 325 (Philosophy of Law)
- Political Science 344 (Jurisprudence), 347P (Crime and Civil Liberties), 348 (Constitutional Law: The Federal System), 349 (Constitutional Law: Civil Liberties), 370 (Labor Law), 405 (American Constitutional Thought), or 509 (Judicial Politics)
- Sociology 430 (Sociology: Law and Social Structure)
- Sociology 431 (The Supreme Court and the Criminal Process), 353 (Legal Aspects of Policing), 435WI (Gender and Law)
- Theatrical Arts 101 (Introduction to Acting)

Interested students should contact the pre-law coordinator for more information.

Psychology

DEPARTMENT OF PSYCHOLOGY

4825 Troost Avenue, Suite 124
(816) 235-1318 (Administrative Office)
(816) 235-1062 (FAX)
psychology@umkc.edu
http://cas.umkc.edu/psyc

Undergraduate Psychology Advising Office
4825 Troost Avenue, Suite 110
(816) 235-1092 (Undergraduate Advising)
psych@umkc.edu
http://cas.umkc.edu/psyc/undergrad

Mailing Address
University of Missouri-Kansas City
Department of Psychology
5100 Rockhill Road
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 Luke's Hospital, the Cancer Institute, Mid America Heart Institute, and 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 also offered by the department of psychology. See the “Graduate Programs” link at the Department of Psychology Web site, http://cas.umkc.edu/psych, for information on current graduate degree offerings.

CAREER IMPLICATIONS OF THE DEGREE

Psychology is a broad discipline incorporating material from the natural sciences, other social sciences and the humanities. The study of psychology entails an examination of the human condition that is relevant to a wide range of occupations. A psychology major serves as the basis for an excellent liberal arts education and also serves as an excellent introduction to the world of scientific inquiry. Psychology students learn about the important concepts that underlie current scientific thought and they receive training in the application of psychological research methods.

The educational background obtained by a student majoring in psychology will prove useful in a variety of professional settings and will provide adequate preparation for entry-level positions in a variety of fields. Graduates with bachelor's degrees in psychology have established careers in such diverse areas as:
- Business and industry
- Child care
- General health care
- Geology
- 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

Bernard Lubin Memorial Speaker Series

This speaker series is sponsored by the Psychology Department of UMKC and is named in memory of Bernie Lubin, Curator's Professor Emeritus, to honor his contributions and dedication to the field of psychology and its teaching. To learn about scheduled speaker events, see http://cas.umkc.edu/psych/news.htm.

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 Terri Conley, faculty adviser, at conleyte@umkc.edu.

For more information, see the Psi Chi Web site at http://cas.umkc.edu/psych/psi_chi/index.htm.

Psychology Activity Committee

The focus of the Psychology Activity Committee (PAC) is to coordinate graduate student and student-faculty social events, enhance communication between the members of various graduate programs in the department, and coordinate educational events to support the professional development of students in the graduate programs. The committee and the events planned are open to graduate students within the psychology department. Students interested in the committee should contact Jennifer Lundgren, faculty adviser, at lundgrenj@umkc.edu.

PSYCHOLOGY (PSYCH) COURSES

- 210 General Psychology (3)
- 211P Applied Psychology (3)
- 225 Meditation, Self-Hypnosis, And Biofeedback (3)
- 300 Industrial Psychology (3)
- 300S I, Interdisciplinary Studies: Special Topics (3)
- 300CT Cluster Course: Healing And Cultural Diversity (3)
- 320WI Experimental Psychology (4)
- 330WI Psychological Writing (3)
- 331 Learning (4)
- 345 Psychology Of Women (3)
- 350 Sensation And Perception (3)
- 351 Theories Of Aggression (3)
- 352 Applied Psychology (3)
- 355 Social Psychology (3)
- 356 Quantitative Methods In Psychology (3)
- 357 Ethnic And Minority Perspectives In Psychology (3)
- 372 Child Psychology (3)
- 373 Child Psychology (3)
- 373 Theory And Methods Of Personality (3)
- 376 Alternate Sexual Lifestyles & Contemporary Issues Human Sexuality (3)
- 378 Psychology Of Human Sexual Behavior (3)
- 379 Psychology Of Language (3)
- 381 An Introduction To Health Psychology (3)
- 460 Principles Of Psychological Testing (3)
- 465 Environmental Psychology (3)
- 473 Motivation (3)
- 475 Introduction To Developmental Disabilities (4)
- 477 Cognitive Psychology (3)
Religious Studies

RELIGIOUS STUDIES

Haag Hall, Room 204E
5120 Rockhill Road
(816) 235-6704 or 5854
Fax: (816) 235-5542
rel-st@umkc.edu
http://cas.umkc.edu/religious_studies

Mailing Address
University of Missouri-Kansas City
Center for Religious Studies
HH 204
5100 Rockhill Road
Kansas City, MO 64110-2499

Program Director:
Gary L. Ebersole [editor]
Professors:
Gary L. Ebersole (director; history)
Associate Professors:
Jeffrey A. Rydberg-Cox (chair, English language and literature), Virginia Blanton (English language and literature)
Assistant Professors:
Jeffrey S. Bennett (sociology), Theresa Torres (sociology)

Description of Program

The Center for Religious Studies (http://cas.umkc.edu/religious_studies) offers an interdisciplinary, cross-cultural and socio-historical approach to the study of religion. The Center is a consortium of several area institutions of higher education that have pooled their resources to participate in the UMKC Interdisciplinary Ph.D. program. Students in religious studies are introduced to the many dimensions of religious belief, practice and expression found in human cultures across time and space. In addition to graduate courses, the Center offers a number of undergraduate courses, listed below, on topics such as gender and religion, women and religion, the anthropology of religion, religion in Latin America, religion in America, and immigration and religion. Related courses relevant to the study of religion will be found under the listings of other departments and programs.

Religious Studies Courses

100 Introduction To Comparative Religion (3)
400 Special Topics In Religious Studies (1-3)
400A Special Topics In Religious Studies (1-3)
400B Special Topics In Religious Studies (1-3)
400C Special Topics In Religious Studies (1-3)
400D Special Topics In Religious Studies (1-3)
467 Myth And Ritual (3)
492 Cults, Sects And New Religious Movements (3)
493 Sex & Religion: The Erotic & The Anti-Erotic In Comparative Persp (3)
494RS Death In The History Of Religions (3)
495RS Time And Space In The History Of Religions (3)
496RS The Body In The History Of Religions (3)
497RS Special Topics And Readings (1-6)

Sociology

DEPARTMENT OF SOCIOLOGY

Haag Hall, Room 208
5120 Rockhill Road
(816) 235-1116
Fax: (816) 235-1117
sociology@umkc.edu
http://cas.umkc.edu/soc

Mailing Address
University of Missouri-Kansas City
Department of Sociology
HH 208
5100 Rockhill Road
Kansas City, MO 64110-2499

Department Chair:
Linda Breytspraak [director]
Professors Emeriti:
Thomas Carroll, C. Neil Bull
Professors:
Department Activities

DEPARTMENT DESCRIPTION

The Department of Sociology/Criminal Justice and Criminology offers programs of study leading to:

- Bachelor of Arts in Sociology
- Master of Arts in Sociology
- Master of Science in Criminal Justice
- Doctor of Philosophy in Sociology

Program minors are available in:

- Sociology
- Anthropology
- Family Studies
- Women's and Gender Studies
- Gerontology
- Criminal Justice & Criminology

Sociology also participates as a co-discipline in UMKC’s Interdisciplinary Ph.D. program. The mission of the department is to extend knowledge about the nature of social life. In the process of learning about social life, students will have opportunities to develop critical thinking and research skills and to apply classroom learning through experiences in community organizations and agencies. Department faculty members are committed to excellence in teaching and work to assist students in developing a foundation for moving into a career.

DEPARTMENT ACTIVITIES

Academic Advising

Student academic advising is a continuous process in the department. Undergraduate advisers are available for consultation throughout the academic year. The department recommends that students consult with their academic advisers if they have found that their courses will not fulfill their major requirements. Undergraduate majors should consult with their advisers to establish a tentative plan of study. Students should leave their mail and e-mail addresses with the department office so that they can receive notifications concerning the class timetable, new classes, and other departmental information of interest to majors.

Financial Assistance

Students can receive financial assistance through various campus scholarships, loan programs, grants and the work-study program. Students who are interested should contact the Financial Aid and Scholarships Office.

Sociology Club and Honor Society

The Sociology Club is open to all students majoring in Sociology as well as students who are interested in this field but have not yet declared a major. Club activities include service projects in the community, sponsorship of community speakers on campus, participation in local and regional professional meetings, and learning about internships and research opportunities. The department has a chapter of Alpha Kappa Delta, a national honorary society for sociology students.

Special Student Award

A special award was established as a memorial to Edward Tomich, Ph.D., professor of sociology from 1964 to 1976. On the recommendation of the department faculty, the Edward Tomich Award is given annually to a senior student majoring in sociology who exemplifies an indomitable spirit; a commitment to the struggle for human welfare; an unquenchable thirst for knowledge and personal growth; an unwillingness to be cowed by authority or the superficialities of status; a readiness to ask the more difficult questions while being ready to accept the uncertainty of answers; and an appreciation of the value of theoretical knowledge about human interaction in everyday life.

Cooperative Programs

The department cooperates with several other programs on the campus by jointly listing courses at the undergraduate level. Students may benefit from combining one of these areas of study with their major:

- Black Studies
- Family Studies
- Gerontology
- Honors program
- Urban Studies
- Women's and Gender Studies
- Criminal Justice & Criminology

Center on Aging Studies

Haag Hall, Room 208
(816) 235-1747
http://cas.umkc.edu/cas

The Center on Aging Studies, which is part of the College of Arts and Sciences, is an interdisciplinary unit concerned with education, research, resource development and community activities designed to understand and improve living conditions of the older population. Among the areas of research and training are health care systems and health promotion, caregiving, grandparents raising grandchildren, volunteerism, intergenerational relationships, social security, social identity and self development, and aging in other cultures. The center seeks to bridge the gap between knowledge and its application in the development of services and policies.

The center, in conjunction with the College of Arts and Sciences Continuing Education Division, administers undergraduate and graduate certificate programs in gerontology. Students also can complete a minor in gerontology. Students interested in this area of study should contact the Center on Aging Studies at (816) 235-1747.

The Center on Aging Studies has built on its location in the heartland with emphasis on issues of aging in rural and urban areas. The center works closely with the University of Missouri Extension throughout the state.
**Sociology Program**

**Bachelor of Arts: Sociology**

The department offers the bachelor of arts and master of arts degrees in sociology and participates as a co-discipline in the Interdisciplinary Ph.D. program. Sociology provides a way of seeing, of seeing through things, and of going beyond the ordinary. It encourages us to investigate the basis for our social arrangements and to explore the importance of social structure and culture. In addition to preparing students for a variety of career paths, sociology teaches us to learn effectively so that we can keep up with rapid changes in society and live meaningful, engaged, and productive lives.

**Career Implications**

The B.A. curriculum in Sociology is designed to prepare students for a variety of career paths, including:

- Future graduate work in sociology in order to become a professor, researcher, or applied sociologist.
- Entry-level positions throughout the business, human services, and government sectors. Employers look for people with the skills that an undergraduate education in sociology provides.
- Careers in journalism, politics, public relations, business, or public administration—fields that involve the kind of investigative skills and ability to work with diverse groups that sociologists learn.
- Professions such as law, education, medicine, social work, and counseling—fields that all draw on the rich fund of knowledge from sociology.

**Student Learning Outcomes**

Graduates of the Bachelor of Arts in Sociology degree program will be able to:

- **Examine** the role and relevance of the sociological perspective for contemporary social life. Thus students will gain knowledge of the fundamentals in sociology, such as the foundations of human practice, belief, and organization.
- **Reflect on** contemporary issues and controversies in the academic discipline of sociology. Thus students will be able to examine issues of inequality, cultural difference, and social stratification from a comparative perspective, applying sociological principles and concepts to their own lives.
- **Explore** the basic theoretical and methodological perspectives, both in the social sciences and in a chosen specialty area. Thus students will have the capacity to critically evaluate and engage contemporary issues, trends in theory, and instruments of social analysis.
- **Advance** the critical research, thinking, and writing skills that are integral to professional development and civic engagement. Thus students will apply the fundamentals of sociology to both experience and an enhanced interest in community engagement.

**Admission Requirements**

High school students are encouraged to take a general college preparatory curriculum. Additional courses in mathematics, English, foreign languages and the social sciences, such as economics, anthropology, psychology and sociology are recommended. Students planning to transfer from a community college are encouraged to take at least 6 credit hours of sociology (including introductory sociology), college algebra and English composition. A maximum of 12 hours of transfer credits, including introductory sociology, can be counted toward satisfaction of the major field requirements.

**Field Experience, Directed Individual Study or Research**

Several courses at the 300 and 400 level are set aside for individual study—either as readings or research courses. The 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 must be made with faculty prior to enrolling in the course. The department also offers internship courses (SOC 390R and 391R), which require considerable work outside the classroom, often in an agency setting. Students are restricted to 6 credit hours of any combination of field experience, directed individual study and research toward the 30 hours required in the sociology major.

**B.A. Degree Requirements**

The bachelor of arts degree in sociology requires a total of 30 credit hours in addition to the general requirements for a degree in the College of Arts and Sciences.

For students selecting the Sociology major, required courses are the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 101</td>
<td>Sociology: An Introduction</td>
<td>3</td>
</tr>
<tr>
<td>SOC 103</td>
<td>Intro. to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 201</td>
<td>Social Theory</td>
<td>3</td>
</tr>
<tr>
<td>SOC 202</td>
<td>Methods of Sociological Research</td>
<td>3</td>
</tr>
<tr>
<td>SOC 301</td>
<td>Intro. to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SOC 361**</td>
<td>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 (SOC 404WI fulfills this requirement).

Other degree requirements include:

1. A 2.0 grade-point average in the 30 hours credited toward the major.
2. A minimum grade of C- in all required courses (SOC 101, 103, 361, 362, 363, and 404WI).
3. Completion of the general degree requirements of the College of Arts and Sciences with a minimum GPA of 2.0.
4. No more than three 1-credit courses of Special Topics in Sociology (SOC 299R) may be used to fulfill Sociology elective requirements.

**Focus Areas for Major**

Majors may develop a focus within the major in one of the areas outlined below. These focus areas are designed to aid the student in selecting a plan of study related to personal or career interests.

Sexualities, Families, and the Life Course:

- SOC 211 Social And Psychological Development Through The Life Cycle
- SOC 310R Families And The Life Course
- SOC 316 Sociology Of Death And Dying
- SOC 328 Anthropology Of The Body
- SOC 410R Aging In Contemporary Society
- SOC 411 Sociology Of Human Sexuality
- SOC 416 Aging And Developmental Disabilities
- SOC 417 Practicum In Aging And Developmental Disabilities
- SOC 440R Sociology Of Medicine

Inequalities: Race, Class, and Gender and Nations:

- SOC 302 Social Stratification
- SOC 303CW Cluster Course: Introduction To Women's Studies
- SOC 313R Sociology Of Women
- SOC 322 Race And Ethnic Relations
- SOC 351 Gender, Work And Social Change
- SOC 441 Developing Countries
Community Engagement:

- SOC 310R Families And The Life Course
- SOC 317 Policies Of Drug Use And Control
- SOC 319 Theoretical Criminology
- SOC 331 Urban Anthropology
- SOC 332 Sociology Of Political Life
- SOC 335R Introduction To Social Work: Principles And Practice
- SOC 336 Society And Community Service
- SOC 337 Community Development In Urban America
- SOC 420 Control Of Crime And Delinquency
- SOC 421 Criminal Behavior In The United States
- SOC 431 Social Organization Of The City

Cultural Anthropology:

- ANTHRO 103 Introduction To Cultural Anthropology
- ANTHRO 302 Social Stratification
- ANTHRO 328 Anthropology Of The Body
- ANTHRO 331 Urban Anthropology
- ANTHRO 346 Cultures Of The African Diaspora

**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 of sociology courses are required for a minor, including the introductory course, SOC 101. At least 9 of the 18 credit hours must be in courses at the 300- or 400-level. Where courses are cross-listed in the major and minor, only 3 credit hours can be applied to both.

**Minor in Anthropology**

Anthropology is a holistic and cross-culturally comparative science that is uniquely qualified to prepare students for multicultural work and social environments in the U.S. and abroad. Careers for anthropologists, however, lie in all areas of human interaction. Anthropologists are especially attractive to companies and government agencies that work with and for national minorities and in foreign countries.

Students will be introduced to the subject and methods of cultural anthropology, examining its foundations and current trends in theory and applications. Students earning a minor in anthropology take 3 credit hours of required coursework (ANTHRO 103, Introduction to Cultural Anthropology) and 15 credit hours of elective courses, which result in a total of 18 hours. Electives can be planned around an area of specialization. At least 9 of the 18 credit hours must be in courses at the 300- or 400-level. Where courses are cross-listed in the major and minor, only 3 credit hours can be applied to both. Students should consult with the program coordinator to select the appropriate courses.

**Theatre**

**DEPARTMENT OF THEATRE**

5319 Holmes Street  
(816) 235-2702  
Fax: (816) 235-6552  
theatre@umkc.edu  
http://cas.umkc.edu/theatre

**Mailing Address**

University of Missouri - Kansas City  
Department of Theatre  
James C. Olson Performing Arts Center, room 404  
Honorary Patricia McIlrath Street  
4949 Cherry St.  
Kansas City, MO 64110-2229

Department Chair:  
Tom Mardikes

Curators' Professor:  
Felicia Londré

Hall Family Foundation Professors:  
John Ezell, Jennifer Martin

The Patricia McIlrath Endowed Professor in Theatre Arts in Acting:  
Theodore Swetz

Professor of Theatre Arts:  
Barry Kyle, Tom Mardikes (chair)

Associate Professors:  
Lindsay Davis, Ronald Schaeffer, Victor Tan

Assistant Professors:  
Erika Bailey, Gene Friedman, Chuck Hayes, Gary Holcombe, Stephanie Roberts

Visiting Professor:  
Ricardo Khan (director, new project development)

Visiting Assistant Professors:  
Don Hovis, Carla Nead, Sarah M. Oliver

Adjunct Professor:  
Patricia A. McCorkle

Adjunct Associate Professor:  
Jeff Dreisbach

Instructor:  
Greg MacKender

Professors Emeriti:  
Jacques Burdick, Cal Fritner, Douglas Taylor

Associate Professor Emeritus:  
Vincent Scassellati

**Student Learning Outcomes**

**Bachelor of Arts in Theatre**

- Theatre Minor
- Advising System

**Theatre (THEAT) Courses**

**DEPARTMENT DESCRIPTION**
The Department of Theatre offers a bachelor of arts degree and a master of arts degree centered in theater history and dramatic literature or playwriting and dramaturgy. It also offers a master of fine arts degree in acting, design or technology. The department has a unique mandate. It is the only department in the state university system of Missouri empowered to grant the M.F.A. degree in theatre, the terminal degree for candidates preparing for a career in the professional theater. Accordingly, the main thrust of the department is its master of fine arts programs that prepare professional actors, designers and technicians for the regional repertory and commercial production companies of the United States. Training in the master of fine arts programs is performance and production oriented. The unique arrangement by which the Department of Theatre and the Kansas City Repertory Theatre coexist, interact and support each other while using the same facilities provides ideal opportunities for candidates.

A training ensemble of experienced professionals is maintained to teach classes and address candidates' needs. In addition to the regular faculty, guest directors and visiting teachers are brought in from the professional world outside and from the ranks of the Kansas City Repertory Theatre to enhance training opportunities. Accreditation is by the National Association of Schools of Theatre. The Department is also a member of the University/Resident Theatre Association.

**STUDENT LEARNING OUTCOMES**

**Bachelor of Arts in Theatre**

Upon completion of the B.A. in Theatre, a student will have:

- A demonstrated ability to communicate ideas in clear and correct writing.
- Read a sampling of world dramatic literature.
- Experienced an overview of the working theater: in performance, design, direction and technical production.
- Learned the basic skills that will make it possible to pursue an advanced degree in performance, design, technical production or theater history.
- Assimilated the etiquette and ethics of interacting with others in the theatrical profession.

**THEATRE (THEAT) COURSES**

- 100: Topical Studies In Theatre Practice (1-3)
- 101: Introduction To Acting (3)
- 113: Introduction To Technical Production (3)
- 121: Oral Interpretation Of Literature (3)
- 130: Foundations Of Fine Arts Theatre (3)
- 180: Theatre Production I (1)
- 295: Speech For The Theatre I (3)
- 298: Movement For Actors (3)
- 301: Acting I (3)
- 302: Cluster Course: Healing And The Arts (3)
- 304: Interdisciplinary Studies: Special Topics (3)
- 305: Cluster Course: History Of Russian Culture (3)
- 311: Acting II (3)
- 317: Scene Design (3)
- 325: Acting III (3)
- 329: Master Class In Acting (2)
- 331: Advanced Oral Interpretation (3)
- 333: History Of Costuming (3)
- 310: Stage Makeup (1)
- 357: Theatre History I (3)
- 358: Theatre History II (3)
- 332: History Of Costuming (3)
- 311: Stage Lighting (3)
- 377: Master Class In Technology (2)
- 378: Stage Management I (3)
- 379: Master Class In Design (2)
- 380: Theater Production II (1)
- 382: Speech For The Theater II (3)
- 400: Special Problems In Theatre (1-6)
- 400A: Special Problems In Theatre: Acting (1-6)
- 400B: Special Problems In Theatre: Design (1-6)
- 400C: Special Problems In Theatre: Costumes (1-6)
- 400C: The Practice and Theory of Creativity - Cluster Course (3)
- 400D: Special Problems In Theatre: Performance (1-6)
- 400D: Special Problems In Theatre: Scenic Design (1-6)
- 400E: Special Problems In Theatre: Directing (1-6)
- 400E: Special Problems In Theatre: History (1-6)
- 400F: Special Problems In Theatre: Lighting (1-6)
- 400G: Special Problems In Theatre: Playwriting (1-6)
- 400H: Special Problems In Theatre: Sound (1-6)
- 400I: Special Problems In Theatre: Stage Management (1-6)
- 400J: Special Problems In Theatre: Technical Production (1-6)
- 400K: Special Problems In Theatre: Theatre Management (1-6)
- 400L: Special Problems In Theatre: Theatre History (1-6)
- 400M: Special Problems In Theatre: Dramaturgy (1-6)
- 400N: Special Problems In Theatre: Storytelling Art And Technique (1)
- 400P: Special Problems In Theatre (1-6)
- 400Q: Special Topics In Theatre (1-6)
- 400R: Special Problems In Theatre: Acting (1-6)
- 400T: Special Problems In Theatre: Design (1-6)
- 400U: Special Problems In Theatre: Costumes (1-6)
- 400V: Special Problems In Theatre: Performance (1-6)
- 400X: Special Problems In Theatre (1-6)
- 401: Cluster Cc: The Practice And Study Of Creativity (3)
- 415: Beginning Directing (3)
- 435: Advanced Directing (3)
- 431: Rendering Techniques For The Theatre Designer I (3)
- 432: Costume Design (3)
- 437: Playwriting I (3)
- 438: Playwriting II (3)
- 439: Theatre Sound And Electronics (3)
- 376: Stage Management II (2)
- 489: Seminar In Professional Theatre (1)
- 497: Repertory Theatre (3-6)

**Urban Studies**

**Urban Studies**

Robert H. Flarsheim Science and Technology Hall
5110 Rockhill Road, Room 420
(816) 235-2971
Fax: (816) 235-5535
d rivers@umkc.edu

Mailing Address
University of Missouri-Kansas City
PROGRAM DESCRIPTION

The urban studies major is for students who desire the breadth and depth of interdisciplinary study in preparation for advanced study in neighborhood and community development, community organization and social services, and urban management and public policy. Interested students should contact the urban studies director for advising no later than the beginning of their junior year.

The urban studies major is also for students who plan to enter specific careers in public service upon completion of the baccalaureate degree. The program is intended to provide a solid base for graduate study and the knowledge and experience necessary for employment in the public sector.

The urban studies major requires an internship comprising field placement in an agency of city, county, state or federal government; in the private sector; or in private nonprofit organizations.

STUDENT LEARNING OUTCOMES

Bachelor of Arts in Urban Studies

Students graduating with a baccalaureate degree in this field will:

- Have a functional knowledge of the basic areas of the field.
- Be able to integrate their knowledge with critical thinking skills.
- Be able to articulate their knowledge, both orally and in writing.
- Be able to research the literature of this field.

B.A. (URBAN STUDIES) - M.P.A. PROGRAM

This program allows urban studies majors to complete a B.A. in urban studies in The College of Arts and Sciences and a master's in public administration in the Henry W. Bloch School of Business and Public Administration in five years. The program allows students to take M.P.A. courses to satisfy urban studies and M.P.A. requirements, which reduces the number of courses needed to complete both degrees.

Students interested in this option should contact the Cookingham Institute of Public Affairs in the Bloch School at (816) 235-2894.

URBAN STUDIES COURSES

- 100 Neighborhood And Community Development (3)
- 102 Introduction To Urban Studies (3)
- 103 Neighborhood and Community Development (3)
- 495 Urban Studies Internship (1-6)
- 499WI Urban Studies Seminar (3)
- 200 Neighborhood And Community Development (3)
- 202 Introduction To Urban Studies (3)
- 203 Neighborhood and Community Development (3)
- 495 Urban Studies Internship (1-6)
- 499WI Urban Studies Seminar (3)

WOMEN'S AND GENDER STUDIES CONCENTRATION AND MINOR

(816) 235-5220
wgs@umkc.edu
http://cas.umkc.edu/wgs

Mailing Address
University of Missouri-Kansas City
Women's and Gender Studies
5100 Rockhill Road
Kansas City, MO 64110-2499

Participating Art and Art History Faculty:
Maude Southwell Wahlman

Participating Communication Studies Faculty:
Caitlin Horsmon

Participating Continuing Education Faculty:
Elizabeth A. Berkshire

Participating Criminal Justice & Criminology Faculty:
Kristi Holinger

Participating English Language and Literature Faculty:
Virginia Banton, Jennifer Frangos, Jane Greer, Jennifer Phegley

Participating Foreign Language and Literature Faculty:
Kathy M. Krause, Rebecca Lee, Gayle A Levy, Alberto Villamandos

Participating History Faculty:
Miriam Forman-Brunell, Viviana L. Grieco, Linda Mitchell, Diane Mutti Burke, Lynda Payne, Shona Kelly Wray, Mary Ann Wynkoop (program director - American Studies)

Participating Law Faculty:
June Carbone, Nancy Levit

Participating Political Science Faculty:
The minor also provides sufficient flexibility to allow for the creation of a course of study especially suited to the individual interests of students. English, religion, anthropology, political science, law and other areas enable students to pursue a specialized focus which enhances their major in the humanities, social sciences or natural sciences. social change as they complete an 18-hour program of study from among a wide variety of classes in numerous fields and disciplines. WGS courses in history, sociology, psychology, criminal justice, though an examination of the historical and contemporary problems facing women locally, nationally and globally. Students expand their understanding of gender difference, cultural diversity and disorders) not covered in other courses.

Required Course:

**HIST 300D** History of Women in America (3)

Electives:

- **ANTH 300** Anthropology of Childhood (special topics) (3)
- **CJC 370** New Dimensions for Criminal Justice Topic: Applied Correctional Interventions for Delinquent Girls (3)
- **EDUC 307** Individual Study (3)
- **ENGLISH 341** Girls and Print Culture (3)
- **HIST 324** Girls in the Past and Present: Continuities and Changes (3)
- **PSYCH 490** Directed Individual Research (3)

With approval from the director of Women's and Gender Studies, students pursuing the certificate may also enroll in directed readings courses in order to examine specific subject areas (e.g. eating disorders) not covered in other courses.

**MINOR IN WOMEN'S AND GENDER STUDIES**

The minor in WGS offers an excellent inter- and multi-disciplinary curriculum that examines women, girls and gender throughout history and across cultures. WGS courses teach critical thinking through the examination of the historical and contemporary problems facing women locally, nationally and globally. Students expand their understanding of gender difference, cultural diversity and social change as they complete an 18-hour program of study from among a wide variety of classes in numerous fields and disciplines. WGS courses in history, sociology, psychology, criminal justice, English, religion, anthropology, political science, law and other areas enable students to pursue a specialized focus which enhances their major in the humanities, social sciences or natural sciences. The minor also provides sufficient flexibility to allow for the creation of a course of study especially suited to the individual interests of students.
Requirements for the Minor

A minor in Women’s and Gender Studies requires 18 credits. Nine credits must be in upper division courses (that is, 300 and 400) and no more than nine credits may overlap with your major. Reading courses on selected topics may be arranged with individual faculty members.

Previously taken courses that focused on women, girls and gender may already count toward a minor. A maximum of six hours of other coursework may be applied to the minor. An appointment is required with the WGS director.

Women’s and Gender Studies
Haag Hall, room 204B
(816) 235-5220
wgs@umkc.edu

The minor in Women’s and Gender Studies form and a copy of your transcript, available from Arts and Sciences advising, is required at the appointment.

Concentration in Women’s and Gender Studies

The WGS concentration provides greater depth and breadth than the 18-credit minor while still preserving the flexibility and focus of an interdisciplinary approach to the study of women and changing notions of gender. The concentration also serves as a valuable complement to any major field of study leading to a bachelor of arts or science degree.

Unlike the traditional discipline-based major, the Women’s and Gender Studies Concentration encourages students to pursue their studies systematically across the Arts and Sciences curriculum by providing a broad range of courses on women, gender, girls and masculinities. The three required courses are designed to introduce students to:

1. The study of women.
2. Theories of gender.
3. The diverse methods of inquiry employed by gender scholars.

The concentration also requires students to take classes in no less than three different disciplines (e.g., history, English and anthropology) in order to:

- Identify the parallels between disciplines.
- Foster critical thinking about accepted categories and constructs.
- Acquire key concepts and knowledge of fundamental issues.
- Develop a basic vocabulary.
- Expand familiarity with major works, thinkers and directions in the field of Women’s and Gender Studies.

Students may choose from an approved list of courses (see courses below) in which women and/or gender are the central category of analyses. Individualized readings courses on selected topics also may be arranged with WGS faculty members. And, as new courses with a significant Women’s Studies component are offered, students pursuing the concentration may request course approval from the director of the Women’s and Gender Studies Program, who will help facilitate and coordinate students pursuing the concentration.

Requirements for the Concentration

There are three required courses (nine credits):

- ANTH 414 Feminist Theories (or other courses on feminist theory)
- ANTH 300W/HIST 400W/SOC 300W Introduction to Women’s Studies
- WGS 499 Research Seminar (or other research course)

The remaining 15 credits must be selected from the list of courses below.

Interdisciplinary Course Listing

Anthropology and Sociology

- ANTH 300C/SOC 300C Introduction to Women’s Studies
- ANTH 314/ANTH 314 Anthropology of Women
- ANTH 414/ANTH 414 Anthropology of the Body
- ANTH 414/ANTH 414 Feminist Theories

Art and Art History

- ART 300B/ART 300B The African Diaspora in Arts and Cultures
- ART 300C/ANTHRO 300C/ANTH 300C African and African American Women and Creativity
- ART 300C/CC: Women in a Man’s World: Gender, Sex and Status in Classical Antiquity
- ART 314/ART 314 The Arts of African and New World Cultures
- ART 320/ART 320 Art of Sub Saharan Africa
- ART 350/ART 350 African Influences on New World Cultures
- ART 365/ART 365 Traditional and Contemporary Native American Arts

Communications Studies

- COMS 320 Mass Media, Culture & Society

Criminal Justice and Criminology

- CJC 390 New Dimensions for Criminal Justice (Topic: Applied Correctional Interventions for Delinquent Girls)
- CJC 410 Gender and the Law
- CJC 395 Women, Crime and Criminal Justice
- CJC 476 Gender, Multiculturalism and Crime

English Language and Literature

- ENGL 241 Women and Literary Culture: Introduction
- ENGL 341W Women and Rhetoric
- ENGL 344W Women and Literary Culture: Genre Focus
- ENGL 345W Women and Literary Culture: Historical Focus
- ENGL 410 Black Women Writers
- ENGL 417/4541 Girls and Print Culture

Foreign Language and Literature

- FRENCH 472 Francophone Studies: Women Francophone Writers
- SPANISH 480/480F Latin American Foundational Fictions

History

- HIST 300D/500D1 Girlhood and Boyhood in America
- HIST 490A/490B History of Sexuality
- HIST 490R Social History and Material Culture of 19th Century America
- HIST 490R History of Fatherhood
- HIST 490R Introduction to Women’s Studies
- HIST 494/5544 Women in Modern America
- HIST 550D/550E Women and Work in Early America
- HIST 590F Gender & Medicine: Patients and Practitioners
- HIST 590C The History and Culture of Nordic Europe, 1750-present
- HIST 590E History of Motherhood
- HIST 592A Women and Family in Medieval and Early Modern Europe
- HIST 498A History of the Body
HIST 5000W Introduction to Women's Studies
HIST 5527 Race, Class, and Gender in 19th Century America
HIST 5563 Women and Gender in Latin America (from the conquest to the present)
HIST 5574G/5674G Community and Identity: 19th Century America
HIST 5574R/5674R Research Seminar: Gender and History

Interdisciplinary Studies

PACE INTDIS 482P Meanings of Masculinities
PACE INTDIS 483P Artful Man Embodied

Law

LAW 8714 Gender and Justice

Political Science

POL-SC 345 The Politics of Sex and Gender

Psychology

PSYCH 405 Motivation (Psychology of Women?)
PSYCH 441 Adult Development and Aging

Religious Studies

RELS 400/5500 Gender and Religion
RELS 400/5500 Women and Religion
RELS 5544G/5644G Death in the History of Religions
RELS 5555G/5655G Time and Space in the History of Religions
RELS 5556G/5656G The Body in the History of Religions
RELS 5505 Religion in America
RELS 5554G Sacred Narratives and Texts

Sociology

SOC 310R Families and the Life Course
SOC 313R Sociology of Women
SOC 315/5154 Sociology of the Aging Woman
SOC 331P Everyday Masculinities
SOC 411 Sociology of Human Sexuality

Women's and Gender Studies

WGS 499 Senior Seminar

WOMEN'S AND GENDER STUDIES COURSES

201 Introduction To Women's Studies (3)
399 Special Topics In Women's And Gender Studies (1-3)
499 Women's And Gender Studies: Senior Seminar (3)

Business and Public Administration, Henry W. Bloch School of

HENRY W. BLOCH SCHOOL OF BUSINESS AND PUBLIC ADMINISTRATION

Bloch School
5110 Cherry Street
(816) 235-2215
bloch@umkc.edu
http://www.bloch.umkc.edu/

Mailing Address
University of Missouri-Kansas City
Henry W. Bloch School of Business and Public Administration
5100 Rockhill Road
Kansas City, MO 64110-2499

Interim Dean:
Lee Bolman

Associate Dean for Academic Affairs:
Lanny Solomon

Assistant Dean for Student Services:
Kari Thomas

Interim Chair, Department of Accountancy:
Lavern (Howie) Krueger

Chair, Department of Finance, Information Management and Strategy:
Marilyn Taylor

Chair, Department of Organizational Behavior, Leadership and Marketing:
Rajinder Arora

Chair, Department of Public Affairs:
David Renz

Director, Executive MBA Program:
Joan Gallos

Coordinator, Doctoral Studies in Public Affairs and Administration:
Nicholas Peroff

Coordinator, Doctoral Studies in Entrepreneurship and Innovation:
Mark Parry

Introduction

Undergraduate Programs

Student Learning Outcomes
Bachelor of Business Administration
Bachelor of Science in Accounting
Business Minor

Courses
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 (MBA), master of public administration (M.P.A.) and the master of science in accounting (M.S. in accounting). Within the MBA program there is an Executive MBA (EMBA) offering. Additionally, the School has two joint degree programs with the UMKC School of Law, the J.D./MBA and the J.D./M.P.A. degrees, and also participates in the Interdisciplinary Ph.D. program. For those students who are enrolled in non-business undergraduate degree programs at UMKC, the Bloch School offers a business minor.

History
The University has offered business courses since 1933. In 1953, with the support and encouragement of the Kansas City community, the School of Business Administration was established. Since that time, the Bloch School has grown to a student body of 1,500 and a faculty of approximately 45 professional educators. In January 1988, the School was renamed for Henry W. Bloch, co-founder of H&R Block, and moved into a newly expanded building.

Mission
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 (NASPAA).

Advising and Student Services
Staff in the Student Services Office, room 115 of the Bloch School, assist students in applying for admission, planning programs and registering for courses. Freshmen and junior students must be advised each semester. Advising information can be found at [http://www.bloch.umkc.edu/current-students/student-services/advising/index.aspx](http://www.bloch.umkc.edu/current-students/student-services/advising/index.aspx). Faculty of the School’s four curricular departments are also available to discuss students’ programs.

Scholarships
The Bloch School offers numerous scholarships for students enrolled in Bloch degree programs. Information and applications are available on the Bloch School Web site at [http://www.bloch.umkc.edu/current-students/bloch-scholarships/index.aspx](http://www.bloch.umkc.edu/current-students/bloch-scholarships/index.aspx). February 1 is the deadline for the majority of these scholarships, which are awarded for the following academic year. For information on loans, grants and other financial aid, contact the UMKC Student Financial Aid and Scholarships Office.

Internships
Students who want to experience work opportunities while in school are encouraged to take their learning beyond the classroom through internships. For-credit internships typically carry one to three hours of credit. To earn academic credit, students should identify a Bloch School faculty member qualified and willing to supervise an internship, complete an internship form available on the Bloch School Web site at [http://www.bloch.umkc.edu/current-students/student-services/forms/index.aspx](http://www.bloch.umkc.edu/current-students/student-services/forms/index.aspx) and enroll in an approved internship course. Interested students may contact the UMKC Career Services Office or refer to the Bloch School Career Launcher (available on Blackboard for students admitted to the junior and senior portion of the Bloch School) for internship opportunities.

International Study Abroad
Bloch School students have the opportunity to study abroad for credit. Students may study for a semester, an academic year or in a special summer program at business schools in Europe and other parts of the world. The Bloch School maintains bilateral exchange agreements with business schools in the United Kingdom, France, Germany, Mexico and Spain. Students who are interested in study abroad opportunities should contact the Bloch School Student Services Office, the Bloch School Center for International Business or the UMKC Center for 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.

**Entrepreneurship and Innovation Club**
The Ei Club facilitates the growth of entrepreneurship and innovation across the entire UMKC campus and the Kansas City metropolitan area. The club offers networking opportunities with business leaders, entrepreneurs, inventors and academics, seminars and lunches with successful entrepreneurs, training in public speaking, internship opportunities, advising in entrepreneurship and innovation and the opportunity to compete in the Institute for Entrepreneurship and Innovation's annual business plan competition.

**Delta Sigma Pi**
Delta Sigma Pi, the nation’s largest professional business fraternity, is open to students interested in all fields of business. Through professional speakers and seminars, developmental workshops and interactive social events with business leaders, faculty members and prominent alumni, the fraternity provides students an excellent opportunity to explore the business environment while still concentrating on academics.

**Financial Management Association**
The Financial Management Association serves as a medium for students to become acquainted with finance practitioners and their activities. FMA also highlights what the industry expects from new graduates and how students can best prepare themselves to become successful professionals in today’s job market.

Students in Free Enterprise

SIFE is one of the largest student organizations in the world with teams on more than 1,600 college and university campuses in the United States and in more than 40 countries throughout the world. Working together as a team, SIFE students apply their classroom experiences to develop and implement educational outreach programs that educate individuals in their communities about the principles of market economics, success skills, entrepreneurship, financial literacy and business ethics. At the end of the year, teams present their year’s efforts and compete at regional competitions, with the winners going on to national and international competitions.

Beta Gamma Sigma

Beta Gamma Sigma is a national honor society for students in business administration and accounting, including students, faculty, members of the administrative staff, alumni and honorary members. Membership is by election from graduate students in the upper 20 percent of their graduating class, with a minimum 3.5 GPA, and seniors in the top 10 percent of their graduating class. Invitations are extended to qualifying students each spring.

Special Programs and Centers

Center for International Business

Bloomberg School
5110 Cherry St.  
http://www.bloomberg.umsystem.edu/

The Center for International Business at the Bloch School promotes and supports academic study and research in international business. The objectives of the Center include: (1) developing and maintaining international course offerings that support the curricula for the B.B.A., MBA and the EMBA programs; (2) promoting and supporting Bloch School faculty and student involvement in academic exchange programs with international partner business schools throughout the world; (3) maintaining the International Business Information Research Directory (IBIRD) with Web site links to important country and subject information sources and (4) engaging in liaison and outreach activities with UMKC and Kansas City organizations involved in international activities.

Cookingham Institute of Urban Affairs

Bloch School
5110 Cherry St.  
(816) 235-2894  
http://www.bloch.umkc.edu/index.aspx

The Cookingham Institute promotes community building and development as a means to contribute to urban area revitalization through scholarship, practice, and community involvement. Students become engaged in applied, interdisciplinary research and work with government, business, and nonprofit entities, as the Institute partners with national organizations to bring cutting-edge practices to Kansas City. Cookingham also contributes to community dialogue through Institute grants, contracts, and a variety of other means.

Institute for Entrepreneurship and Innovation

Bloch School
4747 Troost Ave.  
(816) 235-6200  
http://www.entrepreneurship.bloch.umkc.edu/

The mission of the Institute for Entrepreneurship and Innovation (IEI) at UMKC is to inspire, nurture and empower students across all disciplines to become entrepreneurs and innovators. World-class faculty at the cutting edge of researching, creating and disseminating knowledge in entrepreneurship drive the development of the curriculum and the students’ educational experience. IEI’s goal is that experiential learning will be the basis for all Institute programs, begin with the Entrepreneurship and Innovation Boot Camp (ENT 215/315: Introduction to Entrepreneurship) and carrying through to the development of commercial ventures in the Enterprise Development Laboratory.

KCSourceLink

Bloch School
The Institute for Entrepreneurship and Innovation
4747 Troost Ave.  
(816) 235-6500  
http://kcsourcelink.com

KCSourceLink connects a network of more than 140 resource providers in the Kansas City region that offer business-building services for small business success. Its mission is to help small business grow and prosper by providing business owners easy access to needed services. Aspiring and existing business owners are referred to the appropriate resource through the hotline number and Web site.

Lewis White Real Estate Center

Bloch School
5110 Cherry St.  

The Lewis White Real Estate Center (LWREC) is a comprehensive center that focuses on educating the next generation of real estate leaders in Kansas City and beyond, conducting state-of-the-art research in the field of real estate and providing an educational resource for the community. This newly established center will assist the Bloch School faculty in producing students at both the graduate and undergraduate levels who are qualified to fill entry level and leadership positions in the real estate industry. Additionally, the LWREC strives to better understand the financial risks and rewards of real estate development, particularly in an urban context, as well as the relationship between public policy and urban development.

Midwest Center for Nonprofit Leadership

Bloch School
5110 Cherry St.  
(816) 235-2050  
www.mcnli.org

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 and Technology Development Center

Bloch School
The Institute for Entrepreneurship and Innovation
4747 Troost Ave.  
(816) 235-6063  
http://www.bloch.umkc.edu/sbtdc

The Missouri Small Business Development Centers, a partner with the University of Missouri Extension business development programs, educate individuals to successfully start, run and grow small and entrepreneurial businesses that build a viable economic base, improve lives and enhance communities. The SBTDCC provides counseling in topics such as business plan development, financial management, marketing and more. Training programs include start-up, business plans, accounting, cash flow, management and marketing. Information and technology resources include computerized patent, trademark and copyright searches; exporting leads; product design, testing and quality control; manufacturing studies; and plant layout. The SBTDCC helps both established businesses and those that are just beginning.

Missouri and Heartland Procurement Technical Assistance Centers

The Missouri and Heartland Procurement Technical Assistance Centers educate businesses and those that are just beginning.
Undergraduate Programs

Admission Requirements

Admission to undergraduate programs is available in the fall, spring and summer semesters. Students can elect to attend classes full time or part time and although the majority of courses are offered during the day, courses are also offered in the evening. Both first-time college students and transfer students are eligible to be admitted to the Bloch School if they meet regular UMKC entrance requirements. Students are classified as pre-business or pre-accounting students until they have completed specified general education requirements with the required GPA.

All students classified as pre-business and pre-accounting will remain so classified until they have completed 60 hours of specified general education requirements and have cumulative and University of Missouri GPAs of 2.5. At that time, such students will apply to transfer 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) programs. Students who have not completed 60 hours, achieved a 2.5 GPA, and obtained Microsoft certification in PowerPoint and Excel, will continue to be classified as pre-business or pre-accounting until they have met the above specified requirements. Applicants should go to the Bloch School Web site at http://www.bloch.umkc.edu for course and grade requirements and for application materials and deadlines.

Retention Standards

Students in the junior/senior portion of the bachelor of business administration (B.B.A.) or the bachelor of science in accounting (B.S. in accounting) programs are required to maintain a 2.25 cumulative University of Missouri GPA while enrolled in these programs. Students with GPAs that fall below the minimum 2.25 requirement are placed on probation and are allowed two successive semesters (including the summer semester, if enrolled) to restore their GPAs to the required 2.25. While on probation, undergraduates must achieve a 2.25 term GPA in order to enroll for the ensuing term. If a student’s University of Missouri GPA is still below a 2.25, the student will become academically ineligible to enroll. Good standing is achieved only if the GPAs are 2.25. A 2.25 average in all junior/senior in-major courses is required as well. All pre-business and pre-accounting students must maintain a 2.0 University of Missouri GPA.

Graduation Requirements

All students must pass the Written English Proficiency Test (WEPT) before enrolling in MGT 301 (Effective Business Communication). Information regarding the WEPT is given in the academic calendar and can be found online at http://cas.umkc.edu/english/programs/writing/wept.htm.

The B.B.A. and B.S. in accounting degrees will be awarded on satisfaction of the following:

1. Completion of the degree requirements: minimum of 123 credit hours.
2. Achievement of a 2.25 GPA; satisfactory academic standing is based on:
   - cumulative GPA of 2.25 for all University of Missouri courses; and
   - GPA of 2.25 for all required junior- and senior-level, in-major courses.
3. Completion of the final 30 consecutive semester hours of coursework at UMKC.
4. Completion of the Written English Proficiency Test, the Measure of Academic Proficiency and Progress, the Major Field Assessment Test and other assessment exercises as assigned by the Bloch faculty.
5. Filing of a required application for graduation at the beginning of the senior year.

Students are responsible for ensuring their course of study falls within program guidelines. Students should contact the Bloch School Student Services Office for current policies and program requirements. Updates to programs can also be found online at the Bloch School Web site at http://www.bloch.umkc.edu.

Academic Loads

See the General Undergraduate Academic Regulations and Information section of this catalog.

Concurrent Enrollment

For the policy on earning credit at another college concurrently with credit at UMKC, see the General Undergraduate Academic Regulations and Information section of this catalog.

Credit by Exam

Students who have received credit by exam from a previous institution must present certified scores to the UMKC Records Office. These scores must be acceptable to the department at UMKC housing the subject area. Credit by exam is not permitted after admission into the junior/senior portion of Bloch School programs. Bloch School freshmen and sophomore students should talk with an academic adviser in the Student Services Office about credit by exam restrictions.

Credit/No Credit

All undergraduate courses in the Bloch School must be taken for a letter grade, except for the accounting internship course (ACT 496) which is taken credit/no credit.

Exceptions

Exceptions to academic regulations must be approved by the Bloch School Student Services Office or the curricular department. To seek exceptions, students must file a Petition for Exception to Academic Policy, available in the Student Services Office, room 115 of the Bloch School. Written requests are also accepted via e-mail.

Independent Study

Students are limited to a total of six hours of Bloch School internship/independent study coursework, numbering 496 and 497. Interested students should consult with an adviser in the Bloch School Student Services Office.

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.) and bachelor of science in accounting (B.S. in accounting) programs. These courses should be taken during the freshman and sophomore years. Differences in requirements between the two undergraduate programs are noted.

Preparatory and Basic Skills Requirements

Humanities (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110</td>
<td>Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English II</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 110</td>
<td>Fundamentals of Philosophy</td>
<td>3</td>
</tr>
</tbody>
</table>

Natural Sciences (8 hours)

Students may choose courses from astronomy, biology, chemistry, earth science, environmental science, geology, physical geography, physical science and physics. A laboratory component is required.
Social Sciences (6 hours)
Courses may be selected from American studies, anthropology, criminal justice and criminology, geography, history, political science, psychology and sociology. As part of the six hours, and as required by state law, all students must study the United States and Missouri constitutions.

Fine Arts (3 hours)
Students may select a course from art, art history, conservatory or theater.

Basic Skills (24 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTG 210</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>MIS 211</td>
<td>Computer Applications for Business</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 206</td>
<td>Brief Calculus and Matrix Algebra</td>
<td>3</td>
</tr>
<tr>
<td>STAT 235</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Approved Electives (4-7 hours)
Students pursuing the B.B.A. degree must complete seven hours of approved electives; students in the B.S. in accounting program must complete four hours of approved electives. A maximum of two hours of PE activity is accepted. Applied or military science and vocational courses may not be taken for elective credit.

General Education Requirements for Students Transferring from Other Missouri Institutions with a Certified 42-Hour Core Curriculum
Students transferring into the Bloch School of Business and Public Administration with a certified 42-hour block of general education credit from another Missouri institution must complete additional coursework for baccalaureate degrees from the Bloch School. These courses include:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTG 210</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>MIS 211</td>
<td>Computer Applications for Business</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 206</td>
<td>Brief Calculus and Matrix Algebra</td>
<td>3</td>
</tr>
<tr>
<td>STAT 235</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 210</td>
<td>Foundations of Philosophy (or foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>Written English Proficiency Test (WEPT)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

The preceding requirement can be satisfied by equivalent courses from other institutions. Additionally, some of the courses may satisfy general education requirements in the 42-hour core. Check with individual institutions for more information.

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 Student Services Office, room 115 of the Bloch School.

Student Learning Outcomes

STUDENT LEARNING OUTCOMES
Bachelor of Business Administration (B.B.A.)
Upon graduation from the B.B.A. program, a student will be able to:
- Demonstrate technical competence in domestic and global business through the study of major disciplines within the fields of business.
- Define, analyze and devise solutions for structured and unstructured business problems and issues by using cohesive and logical reasoning patterns for evaluating information, materials and data.
- Conceptualize a complex issue into a coherent written statement and oral presentation.
- Demonstrate the essential knowledge, skills, and abilities to work effectively in teams.
- Exhibit competence in the uses of technology and information systems in modern organizational operations.
- Demonstrate the fundamentals of creating and managing innovation, and new business development for high-growth potential entities.

Bachelor of Science in Accounting (B.S. in accounting)
Upon graduation from the B.S. in accounting program, a student will be able to:
- Demonstrate entry-level technical competence in financial accounting, taxation, cost/managerial and auditing. The competency level is not sufficient to meet the technical requirements for professional certification but will serve as the technical foundation for graduate education.
- Demonstrate technical competence in domestic and global business through the study of major disciplines within the fields of business.
- Define, analyze and devise solutions for structured and unstructured accounting problems and issues by using cohesive and logical reasoning patterns for evaluating information, materials and data.
- Recognize and apply the AICPA code of professional conduct to ethical problems that occur in accounting practice.
- Conceptualize a complex issue into a coherent written statement and oral presentation.
- Demonstrate the essential skills, knowledge and abilities to work effectively in teams.
- Exhibit competence in the uses of technology and information systems in modern organizational and accounting operations.

Bachelor of Business Administration
Bachelor of Science in Accounting
Business Minor
Biological Sciences, School of Biological Sciences, School of
History and Description of School

Undergraduate Programs

- Teacher Certification in Biology
- Career Implications of a Bachelor's Degree in Biology
- Advising
- The Honors Program
- Student Learning Outcomes
- General Education Requirements for Bachelor's Degrees
- Bachelor of Science in Biology
- Suggested Plan of Study
- Bioinformatics Emphasis
- Biotechnology Emphasis
- Cellular and Molecular Basis of Health and Disease Emphasis
- Pre-Dentistry Concentration
- Bachelor of Science in Medical Technology
- Bachelor of Arts in Biology
- Requirements for a Minor in Biology
- Elective Courses for the Non-Biology Major

Courses

- Biology (BIOL)
- Life Sciences (LSI)
- Life Sciences - Anatomy (LSANAT)
- Life Sciences - Biochemistry (LSBIOC)
- Life Sciences - Microbiology (LSMCRB)
- Life Sciences - Physiology (LSPHYS)

Undergraduate Programs and Admissions

UNDERGRADUATE PROGRAMS AND ADMISSIONS

Students may pursue programs of study leading to the following degrees:

- Bachelor of science in biology
- Bachelor of science in biology with the cellular and molecular basis of health and disease emphasis
- Bachelor of science in biology with the bioinformatics emphasis
- Bachelor of science in biology with the biotechnology emphasis
- Bachelor of science in biology with the pre-dentistry concentration
- Bachelor of science in medical technology
- Bachelor of arts in biology

Courses taught by the School of Biological Sciences support academic programs within the schools of Nursing, Dentistry, Medicine, Pharmacy and Education, and departments within the College of Arts and Sciences. An undergraduate minor in biology and a variety of courses that may interest non-biology majors are available to complement other fields of study, or to satisfy general education requirements of other academic units. A background in biology combined with non-science skills creates many career possibilities.

Students interested in pursuing undergraduate degree programs offered by the School of Biological Sciences are admitted through the UMKC Office of Admissions. 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, an overall GPA of at least 2.0 in courses used to fulfill School of Biological Sciences major requirements, and a University of Missouri Biology GPA of at least 2.0.
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.

Career Implications of a Bachelor's Degree in Biology

A BACHELOR'S DEGREE IN BIOLOGY - CAREER OPTIONS

Our programs prepare students for a variety of career opportunities. Some students choose careers in the pharmaceutical or biotech industries, while others opt for graduate study in areas such as bioinformatics, forensics, or cell biology. In addition, a biology major is an excellent choice for students planning careers in medicine, veterinary medicine, dentistry, optometry, physical therapy, and other health professions.

The bachelor of science in biology curriculum fulfills the admissions requirements for most medical schools and incorporates intermediate and upper-level biology courses specifically recommended by medical school admissions officers. Those who wish to follow the pre-med track have the option to pursue the bachelor of science in biology with the cellular and molecular basis of health and disease emphasis, and those pursuing the pre-dentistry track may earn a bachelor of science in biology with a pre-dentistry concentration.

Advising

ADVISING

The School of Biological Sciences' experienced team of advisers is knowledgeable about admission requirements and application processes for health professions programs. It is important for students considering eventual application to medical, dental, or veterinary school or other professional programs to consult early and often with a School of Biological Sciences adviser about appropriate course selection and additional preparation.

Advisers assist the student in investigating programs throughout the country and in planning an individualized undergraduate course of study. In addition they host informational meetings/workshops about aspects of planning for a health professions career, provide information on admission exam preparation, assist in the application process and in developing a personal statement, and help the student work with Career Services to compile a letter of recommendation file. Each student receives support and encouragement during all phases of the application process. Students are strongly encouraged to take advantage of adviser expertise by discussing their career plans beginning with their first semester at UMKC. Please see the additional catalog section on Pre-Medicine/Pre-Health for other information.

The Honors Program

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 Advising 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 ACT, and to ensure that courses selected provide an appropriate academic program, students participate in advising 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

Students earning a B.A. or B.S. from the School of Biological Sciences:

- Will have acquired fundamental knowledge in the biological sciences.
- Will have acquired specialized knowledge in cellular, molecular and biochemical aspects of modern biology.
- Will have acquired knowledge in the supporting areas of math and science, including chemistry, physics and statistics or calculus.
- Will have been encouraged to participate in discovery through faculty-directed individual research projects.
- Will have pursued interests in areas of biology beyond the core curriculum through elective coursework.
- Will have demonstrated proficiency in scientific writing.
General Education Requirements for Bachelor's Degrees

**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 226. In addition, students must pass the Written English Proficiency Test (WEPT) or satisfactorily complete English 206. A student earning a score of 30 or better on the ACT English subtest or 650 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 101, HIST 202, HIST 206 or HIST 208
- ANTH 103
- SOC 101 or SOC 103
- CS 100 or above
- MATH 140 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 POLSC 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 Academic Profile Exam and the Major Field Assessment Test (MFAT), residency requirements, minimum GPA standards, and other requirements that may be specified.

---

**Bachelor of Science in Biology**

**Suggested Plan of Study**

**Bioinformatics Emphasis**

**Biotechnology Emphasis**

**Cellular and Molecular Basis of Health and Disease Emphasis**
Pre-Dentistry Concentration

Bachelor of Science in Medical Technology

Bachelor of Arts in Biology

Requirements for a Minor in Biology

**REQUIREMENTS FOR A MINOR IN BIOLOGY**

<table>
<thead>
<tr>
<th>Course</th>
<th>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 Lab</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 Lab</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></td>
</tr>
</tbody>
</table>

One laboratory course chosen from:
- LSANAT 118L, BIOL 312L, BIOL 312WL,
- LSMCRB 311L, LSMCRB 312L, LSMCRB 360L,
- LSBIOC 360L, BIOL 328L, or BIOL 328WL.

Seven hours of upper-level biology majors courses: 7

Total Biology hours: 21

Standards that must be met for the minor:

1. Only grades of C- or better will be allowed to count toward fulfillment of the required 21 hours of biology coursework.
2. Students seeking a biology minor must have a minimum cumulative 2.0 UM biology GPA in courses used to fulfill the minor requirements.
3. At least 11 of the 21 required hours must be earned from the School of Biological Sciences.
4. At least 4 of the 7 hours of junior/senior level coursework must be earned from the School of Biological Sciences.

**Elective Courses for the Non-Biology Major**

Elective Courses for the Non-Biology Major

Students in other academic units are encouraged to select courses in the School of Biological Sciences to meet their general education requirements and to complement their major area of study. Suggested courses include BIOL 102, 102L, LSANAT 118, 118L, LSMCRB 112, and LSPHYS 117. BIOL 108, 109, 202, 206 and upper-level courses for which prerequisites have been satisfied are recommended for those students who wish to gain a strong foundation in biological sciences. Students enrolling in these biology majors’ courses should have a solid background in high school biology and chemistry.

**History and Description of School**

History and Description of School

The School of Biological Sciences was established (originally as the School of Basic Life Sciences) in 1985. The School’s vision is “to better the quality of life through excellence in education and research.” This vision is realized through the provision of quality education at the undergraduate and graduate levels, the expansion of knowledge through scientific research, and the application of scientific information for the advancement of human welfare. The School has been designated as an eminence program by the curators of the University of Missouri, and as such is a unit targeted for expansion and development.

Research by faculty, as well as graduate and undergraduate students, is focused on cellular and molecular aspects of modern biology, with emphases in molecular genetics, cell biology and structural biology. Advances in these areas will provide fundamental knowledge for biotechnology, molecular medicine, environmental remediation and computational biology. Students are encouraged to gain hands-on research experience, involving them in the process of creating knowledge and equipping them to shape the future.

Quality curriculum combined with research-active faculty and state-of-the-art equipment, provide students with an outstanding opportunity to expand critical thinking and problem solving skills while developing an in-depth understanding of the molecular, cellular, and genetic foundations of biological sciences.

**Teacher Certification in Biology**

Teacher Certification in Biology

Computing and Engineering, School of

Computing and Engineering, School of

Robert H. Flarsheim Science and Technology Hall

5110 Rockhill Road, Room 534
(816) 235-2399
Fax: (816) 235-5159
cse@umkc.edu
http://www.sce.umkc.edu

Mailing Address

University of Missouri-Kansas City
School of Computing and Engineering
534 Flarsheim Hall
5100 Rockhill Road
Kansas City, MO 64110-2000

Dean:
Kevin Z. Truman

Associate Dean of Academics
Jerry Place

Associate Dean of Research
Khosrow Sohraby
Department of Civil and Mechanical Engineering:
Chair:
Mark McClernon
352 Flarsheim Hall
(816) 235-5550
http://www.sce.umkc.edu/cme/cme.shtml

Department of Computer Science Electrical Engineering:
Chair:
Appie van de Liefvoort
546 Flarsheim Hall
(816) 235-1193
http://www.csee.umkc.edu

GENERAL DESCRIPTION

History
The University has offered engineering degree coursework since 1956. Increased technology demands during the mid-80s, combined with a generous gift from Sprint, led to the development of UMKC’s high-tech Computer Science and Telecommunications Program in 1984. These disciplines were combined in 2001 to form the School of Computing and Engineering (SCE).

Mission
The mission of the School of Computing and Engineering is to provide competitive educational opportunities and focused research in computing and engineering generating the technical work force and research needed for economic development.

Departments and Degree Programs
The School of Computing and Engineering has two departments:

- Civil and Mechanical Engineering
- Computer Science Electrical Engineering

Each department offers undergraduate and graduate degrees. The Civil and Mechanical Engineering Department offers B.S. in Civil Engineering, B.S. in Mechanical Engineering, M.S. in Civil Engineering, and M.S. in Mechanical Engineering. The Computer Science Electrical Engineering Department offers B.A./B.S. in Computer Science, B.S. in Electrical & Computer Engineering, Bachelor of Information Technology (B.I.T.), M.S. in Computer Science, and M.S. in Electrical Engineering.

The School also participates in UMKC’s Interdisciplinary Ph.D. program through four disciplines: computer science, electrical and computer engineering, engineering (for civil and mechanical engineering) and telecommunications and computer networking. (See the School of Graduate Studies section of this catalog for details about the Interdisciplinary Ph.D. Program.)

ACADEMIC DISHONESTY

A student enrolling in any UMKC course is expected to exhibit high standards of academic honesty in all works, and are expected to refrain from cheating and plagiarism. Rules governing any suspected violation are clearly spelled out elsewhere in the UMKC catalog (www.umkc.edu/umkc/catalog/html/append/policy/0040.html). Instructors are obligated to report any cases of alleged academic dishonesty, and any violation will result in sanctions being imposed on the student, ranging from a warning, probation, loss of financial aid, loss of privileges, suspension, and dismissal. Please note that both receiving and giving unauthorized assistance is considered academically dishonest.

GENERAL OVERVIEW

History
The University has offered engineering degree coursework since 1956. Increased technology demands during the mid-80s, combined with a generous gift from Sprint, led to the development of UMKC’s high-tech Computer Science and Telecommunications Program in 1984. These disciplines were combined in 2001 to form the School of Computing and Engineering (SCE).

Mission
The mission of the School of Computing and Engineering is to provide competitive educational opportunities and focused research in computing and engineering generating the technical work force and research needed for economic development.

Departments and Degree Programs
The School of Computing and Engineering has two departments:

- Civil and Mechanical Engineering
- Computer Science Electrical Engineering

Each department offers undergraduate and graduate degrees. The Civil and Mechanical Engineering Department offers B.S. in Civil Engineering, B.S. in Mechanical Engineering, M.S. in Civil Engineering, and M.S. in Mechanical Engineering. The Computer Science Electrical Engineering Department offers B.A./B.S. in Computer Science, B.S. in Electrical & Computer Engineering, Bachelor of Information Technology (B.I.T.), M.S. in Computer Science, and M.S. in Electrical Engineering.

The School also participates in UMKC’s Interdisciplinary Ph.D. program through four disciplines: computer science, electrical and computer engineering, engineering (for civil and mechanical engineering) and telecommunications and computer networking. (See the School of Graduate Studies section of this catalog for details about the Interdisciplinary Ph.D. Program.)

Department of Civil and Mechanical Engineering

CIVIL ENGINEERING AND MECHANICAL ENGINEERING

Robert H. Flarsheim Science and Technology Hall
5110 Rockhill Road, Room 352
(816) 235-5550
Fax: (816) 235-1260
cme@umkc.edu
http://www.sce.umkc.edu/cme/cme.shtml

Mailing Address
University of Missouri-Kansas City
Civil and Mechanical Engineering
352 Flarsheim Hall
5100 Rockhill Road
Kansas City, MO 64110-2499

Chair:
Mark F. McClernon

Professors:
Bryan R. Becker
Kevin Z. Truman

Associate Professors:
Mark F. McClernon (chair and director of mechanical engineering), Deborah J. O'Bannon, Jerry R. Richardson

Assistant Professors:
Brian A. Fricke, Trent M. Guess, Ceki Haiman, John Kevern, Greg King, Pei-Wei Lin, Ganesh Thigalaran

Assistant Teaching Professor:
Katherine H. Bloemker

Adjunct Faculty:
Lee Azim, Max Bona, Mike Carlson, David Christianson, Larry Drbal, Bob Hanlin, Steve Hague, Mike Kelly, Bob Lambrecht, Forrest G. Lowe, Dan Justice, Thomas Kimes, Jim Mahoney, Pete Scheuer, Walter Rychlewski, Scott Yerganian

Professors Emeriti:
C. Quinton Bowles, George F.W. Hauck, Rudolph L. Leutzinger, Sr., Donald R. Smith, William E. Stewart, Jr.

Civil Engineering

Career Opportunities
Bachelor of Science in Civil Engineering
Educational Objectives
Admission
Scholarships
Advising and Registration
Program Activities
Student Learning Outcomes
Undergraduate Curriculum Requirements
General Education Curriculum for Transfer Students
Special Academic Regulations
Academic Standing
Application for Graduation

Fast Track Civil Engineering Program
Program Description
Curriculum Requirements
Requirements for Graduation

Mechanical Engineering

Program Description
Career Opportunities
Bachelor of Science in Mechanical Engineering
Educational Objectives
Admission
Scholarships
Advising and Registration
Program Activities
Student Learning Outcomes
Undergraduate Curriculum Requirements
General Education Curriculum for Transfer Students
Special Academic Regulations
Academic Standing
Application for Graduation

Fast Track Mechanical Engineering Program
Program Description
Curriculum Requirements
Requirements for Graduation

Courses
Civil Engineering (CE)
Mechanical Engineering (ME)

ADMISSIONS

First-Time Admission
First-time college student applicants to the undergraduate program will be admitted if they obtain: (1) an ACT mathematics score of at least 25; and (2) an ACT composite score of at least 24, or a high school class rank in the upper 25 percent.

First-time college student applicants who do not meet the standard criteria but do meet UMKC general admission requirements, and have other indicators that demonstrate potential for success, may be admitted to the Civil and Mechanical Engineering Department under the "V" Modifier. The student may apply for acceptance into the civil engineering discipline after completing 24 semester credit hours of the required coursework with acceptable grades.

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 department upon written appeal by the student.

Transfer Admission
Non-first-time college students (transfer students) will be admitted provided they have at least a 2.0 cumulative GPA and a last-term GPA of at least 2.0 at each institution attended. Otherwise, a formal review with a written appeal by the department is required. GPA's are computed using only transferable coursework applicable toward the civil engineering degree. Coursework satisfactorily completed at other universities or colleges is transferable as applicable. Engineering courses are accepted only if they are from ABET-accredited engineering programs or have been approved as part of a transfer articulation agreement.

International Students
International students transferring from non-ABET-accredited engineering programs are required to have the equivalent of a 2.5 cumulative GPA, with a cumulative GPA of at least 2.0 and a last-term GPA of at least 2.0 at each institution attended. GPA's are computed using only transferable coursework (As defined below) applicable towards the civil engineering degree.

International Transfer Credit
Unless the international institution is recognized by ABET, only sophomore level (200 level) or below coursework may be transferred by petition and review of the academic committee. Final acceptance of transfer credit by petition requires completion of one academic year of probation. Any identified deficiencies during that probation period will, on the review of the academic committee, require remedial coursework.

**ADVISING AND REGISTRATION**

The civil engineering program assigns a faculty member to be the student’s academic adviser throughout the duration of their study. Students may request a change of adviser assignment. Students are required to meet with their faculty adviser every semester prior to registration for the following semester. The faculty adviser guides the student in selecting courses that are necessary for completion of degree requirements, and answers questions regarding elective course programs and options. During the advising period, the faculty adviser determines whether the student is meeting degree requirements by reviewing the program advisement form. Any exceptions to the normal procedure must be approved by written petition. Specific information regarding registration is found in the UMKC Class Schedule and on the UMKC Web site.

**CIVIL ENGINEERING**

The American Society of Civil Engineers (ASCE) defines civil engineering as “the profession in which a knowledge of the mathematical and physical sciences gained by study, experience, and practice is applied with judgment to develop ways to utilize economically, the materials and forces of nature for the progressive well-being of humanity in creating, improving and protecting the environment, in providing facilities for community living, industry and transportation, and in providing structures for the use of humanity”. The CE program aims to prepare students with a breadth and depth in the technical knowledge so that they can work immediately in most areas of the profession including geotechnical engineering; hydraulics, hydrology, environmental engineering; structural engineering; and transportation/traffic engineering.

**MECHANICAL ENGINEERING CIVIL ENGINEERING (CE) COURSES**

- 111 Essential Engineering (3)
- 211 The Engineering Enterprise (3)
- 219 Computer Programming For Engineers (3)
- 275 Engineering Statics (3)
- 276 Strength Of Materials (3)
- 301 Fundamental Topics In Civil Engineering (1-3)
- 311 The Technical Entrepreneur (3)
- 319 Engineering Computation And Statistics (3)
- 320 Introduction to Factorial Design (1)
- 321 Structural Analysis I (4)
- 323 Structural Steel Design (3)
- 335 Soil Mechanics (3)
- 342 Water And Wastewater Treatment Processes (3)
- 351 Fluid Mechanics (3)
- 355WI Water Resource Engineering (5)
- 378WI Civil Engineering Materials (3)
- 390 Engineering Coop/Internship (0)
- 401 Topics In Civil Engineering (1-3)
- 401D Topics In Civil Engineering (3)
- 411 Civil Engineering Systems Design I (2)
- 412 Civil Engineering Systems Design II (3)
- 421 Matrix Methods Of Structural Analysis (3)
- 422 Reinforced Concrete Design (3)
- 423 Advanced Structural Steel Design (3)
- 425 Prestressed Concrete (3)
- 432 Foundation Engineering (3)
- 443 Hazardous Waste Management (3)
- 444 Unit Process Laboratory (3)
- 445 Environmental Engineering Microbiology (3)
- 446 Limnology (3)
- 447 Contracts and Law for Engineers (3)
- 448 Environmental Public Policy (3)
- 449 Environmental Compliance, Auditing And Permitting (3)
- 452 Hydraulics Of Open Channels (3)
- 453 Hydraulics And Variability Of Rivers (3)
- 454 River Stability And Scour (3)
- 455 Highways, Hydraulic & Sediment Transport (3)
- 465 Engineering Administration (3)
- 467 Introduction To Construction Management (3)
- 468 Construction Planning And Scheduling (3)
- 469 Construction Methods And Equipment (3)
- 472 Advanced Mechanics Of Materials (3)
- 475 Introduction To Earthquake Engineering (3)
- 481 Highway And Traffic Engineering (3)
- 484 Pavement Materials And Design (3)
- 486 Planning and Geometric Design of Highways (3)
- 487 Applied Finite Element Analysis (3)
- 491 Internship (0-6)

**MECHANICAL ENGINEERING (ME) COURSES**

- 111 Essential Engineering (3)
- 130 Engineering Graphics (3)
- 131 Engineering Graphics-3D Design (1)
- 211 The Engineering Enterprise (3)
- 219 Computer Programming For Engineers (3)
- 220 Electric Circuits (3)
- 285 Engineering Dynamics (3)
- 299 Engineering Thermodynamics (3)
- 301 Fundamental Topics In Mechanical Engineering (3)
- 301E Topics In Mechanical Engineering (3)
- 306 Computer-Aided Engineering (3)
- 311 The Technical Entrepreneur (3)
- 319 Engineering Computation And Statistics (3)
- 324 Engineering Materials (4)
- 351 Fluid Mechanics (3)
- 352 Instrumentation & Measurements Lab I (3)
- 360 Thermal System Design (3)
- 362 Instrumentation & Measurements Lab II (3)
- 380 Manufacturing Methods (3)
- 385 System Dynamics (3)
- 390 Engineering Coop/Internship (0)
- 399 Heat And Mass Transfer (3)
- 401 Topics In Mechanical Engineering (1-3)
- 401BN Topics In Mechanical Engineering (1-3)
- 401H Topics In Mechanical Engineering (1-3)
- 401M Topics In Mechanical Engineering (1-3)
- 401SA Topics In Mechanical Engineering (1-3)
• 401V Topics In Mechanical Engineering (1-3)
• 411 Biomechanics (3)
• 414 Material Science For Advanced Applications (3)
• 415 Feedback Control Systems (3)
• 420 Human Powered Vehicle Design Lab (3)
• 424 Non-Metallic Engineering Materials (3)
• 431 Experimental Methods In Fluid Flow & Heat Transfer (3)
• 440 Heating And Air Conditioning (3)
• 441 Intermediate Fluid Mechanics (3)
• 444 Composite Materials (3)
• 445 Power Plant Design (3)
• 452 Advanced Mechanics Of Materials (3)
• 453 Experimental Stress Analysis (3)
• 454 Power Generation Systems (3)
• 455 Digital Control Of Mechanical Systems (3)
• 456WI Mechanical Component Design (3)
• 457 Microcomputer Control Of Mechanical Systems (3)
• 458 Modern Control Systems (3)
• 460 Electromechanical Conversion (3)
• 461 Electromechanical Conversion II (3)
• 466 Applied Optimization And Decision Modeling (3)
• 476 Machine Tool Design (3)
• 481 Manufacturing Automation (3)
• 484 Vibratory Analysis (3)
• 486 Introduction To Finite Element Methods (3)
• 491 Internship (0-6)
• 495 Vehicle Dynamics (3)
• 496WI Mechanical Design Synthesis (4)
• 499 Intermediate Heat Transfer (3)

**Program Description**

The program offers the bachelor's degree and the master's degree in civil engineering and participates in the UMKC Interdisciplinary Ph.D. program. The Bachelor of Science in Civil Engineering is accredited by the Engineering Accreditation Commission of Accreditation Board for Engineering and Technology (ABET). Information regarding these scholarships may also be obtained from the department office. Engineering students are also eligible to apply for SCE Scholarships (http://www.sce.umkc.edu/). Information regarding these scholarships may also be obtained from the Department office.

**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; environmental engineering; hydraulics; and structural engineering.

**Educational Objectives**

- Students have the professional skills that prepare them for immediate employment in Civil Engineering.
- Students apply the necessary problem-solving, design, and application skills for successful careers in Civil Engineering.
- Students have the educational foundation and communication skills that prepare them for diverse career paths.
- Students succeed in the complex social, business, and technical environment in which their engineering contributions will be utilized.

**Scholarships**

A list of scholarships and financial aid is available on the Financial Aid webpage at http://www.sfa.umkc.edu/. Application information regarding these scholarships is available from the department office. Information regarding these scholarships may also be obtained from the Department office.

**Program Activities**

Students enjoy many group activities outside the classroom. They participate in regional and national competitions, design and erect bridges and concrete canoes, and participate in Engineers' Week activities. They have been winning their share of awards and have had fun doing it.

The School of Computing and Engineering has a number of societies open to all engineering students. These include the SCE Student Council, and the student chapters of the American Society of Civil Engineers (ASCE), the Missouri Society of Professional Engineers (MSPE), the National Society of Black Engineers (NSBE), the Society of Women Engineers (SWE) and the Structural Engineering Association of Kansas and Missouri (SEAKM). In these organizations, students have an opportunity to develop their career through association with other civil engineering students, the faculty, and active members of the profession. The chapters hold monthly meetings, field trips and other activities such as competing in the steel bridge and concrete canoe competitions. Membership is open to all engineering students.

Several national engineering honorary societies have also been established to recognize academic excellence. Tau Beta Pi is for all engineering majors. Assembly of Civil Engineering Scholars (ACES) is an honorary society for civil engineering students.

**Special Academic Regulations**

**C Prerequisite Rule**

A grade of "C" (2.0) or better must be earned in every course which is a prerequisite for an engineering course.
Audits
A student cannot take a course for audit and later expect to take the same course for credit in the degree program. For that reason, students must not audit any courses required in their program, unless credit has already been established. To audit an elective course, written consent from both the student's adviser and the instructor of the course is required. After the first week of classes, a student cannot change from credit to audit or audit to credit.

Repeat of Courses
No courses taken within the University of Missouri system may be repeated if a grade of C or better has been obtained. All grades in each attempt count toward cumulative grade-point calculation.

Petitions
To receive an exception from stated departmental guidelines or curriculum, the student must file a petition in the Department Office. To receive transfer credit for courses taken at another institution after admission to Civil Engineering, the student must file a petition in the Department Office.

Withdrawals
A student may withdraw from a course without academic assessment by completing a Drop/Add form before the deadline given in the UMKC Schedule of Classes.

ACADEMIC STANDING
The University tries to assure that students progress satisfactorily toward their goals and receive clear warning when they do not. To this end, engineering adheres to a clear policy, but provides for exceptions in unusual cases. The interest of the student is paramount.

A student is in good academic standing when term and cumulative grade-point averages (GPA) from the University of Missouri system are 2.0 or higher in courses necessary for an engineering degree. Students will be placed on academic probation if, when in good academic standing, they earn a term GPA of less than 2.0 but greater than 1.0. Students may also be placed on academic probation at the time of initial admission or readmission because they do not fully meet the minimum standards. Students earning a term GPA of less than 1.0, or a term GPA of less than 2.0 while on academic probation become ineligible for continuation of studies. The academic standing statements found at the top of semester grade reports are defined as follows:

- **Now In Good Standing** - Term and cumulative GPA greater than 2.0.
- **Now On Probation** - Term or cumulative GPA less than 2.0.
- **Academically Ineligible** - Term GPA less than 1.0 or two consecutive semesters with term or cumulative GPA less than 2.0.

When a student becomes academically ineligible, the student is not allowed to continue academic studies. Any pre-registration of course work will be canceled. In order to continue academic studies, the student must appeal to the Civil and Mechanical Engineering Department in writing.

Now In Good Standing
A student whose term and cumulative grade-point averages (GPA) from the University of Missouri system are 2.0 or higher, in courses necessary for an engineering degree, is in good academic standing. A term is defined as a fall semester, spring semester or summer session.

Now on Probation
A student will be placed on academic probation if, when in good academic standing, the student earns a term GPA of less than 2.0 but greater than 1.0. A student may also be placed on academic probation at the time of initial admission or readmission because the student does not fully meet the minimum requirements.

Probationary Term
After being placed on academic probation, the student's next semester of enrollment (the probationary term) must result in the completion of at least 12 hours of course work necessary for an engineering degree. A student will be returned to good standing if, at the end of the probationary term, the student's term and cumulative GPAs are 2.0 or higher in courses necessary for an engineering degree.

Academically Ineligible
A student will become academically ineligible if any of the following apply:

- The student receives a term GPA of less than 1.0.
- The student receives a term GPA of less than 2.0 for the probationary term.
- The student's last 30 hours were taken at an institution after admission to Civil Engineering.
- 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 student's future success. Accordingly, any appeal should include causes for the student's past poor performance and reasons for expecting better performance in the future. When the Appeals Committee allows a student to re-enroll, it may set conditions such as courses to be taken, minimum grades, total hours, etc. to which the student must adhere.

If a student has become academically ineligible and wishes to enroll on a part-time basis, the student must appeal to the Academic Appeals Committee and document the reasons for part-time enrollment. Such documentation might include a written doctor's statement for medical reasons or a written employer's statement for work reasons. If work is given as the reason for part-time enrollment, the following guidelines shall apply:

<table>
<thead>
<tr>
<th>Work Hours/Week</th>
<th>Minimum Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>40+</td>
<td>3</td>
</tr>
<tr>
<td>20+</td>
<td>6</td>
</tr>
<tr>
<td>9</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 semester's course work. Requirements for graduation include the following:

1. The student's last 30 hours must be taken at the University of Missouri-Kansas City.
2. The overall grade-point average in all enrollments in all University of Missouri course work must be at least 2.0.
3. The grade-point average in the last enrollment in all engineering course work (CE, ECE, ME) must be at least 2.0.

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 object of this test is to assess the effectiveness of university course work and the score is not part of the student's permanent record.

PROGRAM DESCRIPTION
Student will begin with the existing undergraduate degree programs in the school. They will take the same classes as other undergraduates, carrying 16-18 credit hours per semester. If they continue to meet the requirements, they will be invited to take graduate level classes before they graduate with a B.S. degree. After graduating with a bachelor's degree, they will continue with the graduate program in the same discipline and compete for one of ten financial incentives made available from the Dean's office.

Sample degree programs are available from the CME Office in Robert H. Flarsheim Science and Technology Hall, Room 352.
FAST TRACK CURRICULUM REQUIREMENTS FOR CIVIL ENGINEERING REQUIREMENTS FOR GRADUATION

Credit Hour Requirements:
The BS and MS program in Civil Engineering requires:
- 126 Undergraduate Credit Hours,
- 30 Graduate Credit Hours, and
- 156 Total Credit Hours.

Academic Requirements:
1. Students enrolled in the plan must maintain a 3.5 GPA in all required degree coursework.
2. Students must maintain full-time continuous enrollment for the five years of the program.
3. Only 10 students will be admitted to the program.
4. If a vacancy arises during the first two years of the program it may be filled by another qualifying student.
5. Students will follow the specific requirements of their respective bachelor's degree program, mechanical or civil, and will do six hours of graduate coursework in the summer between the third and fourth year of the program. Six more graduate credit hours will be done in the summer immediately following the fourth year with the remaining eighteen graduate credit hours done in the fall and spring semesters of the program's fifth year.
6. Students must be admitted to the Graduate School no later than the spring semester of their fourth year.
7. Upon successful completion of the first four years, students in the CME Fast Track Master's Scholar program will receive either
   - A Graduate Teaching Assistantship (GTA) which includes a fee waiver for three residential credit hours, or
   - A Tuition Fee Waiver for their first graduate semester.
These are renewable for the second semester of the fifth year only if they complete at least nine credit hours during their first semester with at least a 3.50 GPA.

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 bachelor's degree and the master's degree in mechanical engineering and participates in the UMKC Interdisciplinary Ph.D. program. The Bachelor of Science in Mechanical Engineering is accredited by the Engineering Accreditation Commission of ABET.

The Master of Science in Mechanical Engineering has both thesis and non-thesis options. Students interested in pursuing a doctoral degree in mechanical engineering may select engineering as a discipline when applying for admission into the Interdisciplinary Ph.D. program.

To accommodate part-time and working students, most of the undergraduate classes are conducted in the afternoons and graduate classes are conducted in the evenings.

The mechanical engineering program has a rich history in Kansas City. The University of Kansas City offered a General Engineering degree in the 1950's. The master's program in mechanical engineering was started in 1964 and later the undergraduate program was added in the early 1970s. Since 1977 the undergraduate program in mechanical engineering has been independently accredited by ABET. The program became a part of the School of Computing and Engineering (SCE) in January 2001 and is housed in Flarsheim Hall.

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 areas of the profession.

EDUCATIONAL OBJECTIVES
- Students have the professional skills that prepare them for immediate employment in Mechanical Engineering.
- Students apply the necessary problem-solving, design, and application skills for successful careers in Mechanical Engineering.
- Students have the educational foundation and communication skills that prepare them for diverse career paths.
- Students succeed in the complex social, business, and technical environment in which their engineering contributions will be utilized.

FAST TRACK MECHANICAL ENGINEERING PROGRAM
Well prepared high school students are eligible for a combination degree program within the Department of Civil and Mechanical Engineering.

This program involves completion of a BS degree in Mechanical Engineering after four years and completion of an MS degree in Mechanical Engineering one year later. In addition, qualifying students will be given financial incentives during the fifth year of the program.

PROGRAM DESCRIPTION
Student will begin with the existing undergraduate degree programs in the school. They will take the same classes as other undergraduates, carrying 15-18 credit hours per semester. If they continue to meet the requirements, they will be invited to take graduate level classes before they graduate with a B.S. degree. After graduating with a bachelor's degree, they will continue with the graduate program in the same discipline and compete for one of ten financial incentives made available from the Dean's office.

Sample degree programs are available from the CME Office in Robert H. Flarsheim Science and Technology Hall, Room 352.

REQUIREMENTS FOR GRADUATION
Credit Hour Requirements:
The BS+MS program in Mechanical Engineering requires:
- 126 Undergraduate Credit Hours,
- 30 Graduate Credit Hours, for a total of
FAST TRACK CIVIL ENGINEERING PROGRAM

Well prepared high school students are eligible for a combination degree program within the Department of Civil and Mechanical Engineering.

This program involves completion of a BS degree in Civil Engineering after four years and completion of an MS degree in Civil Engineering one year later.

In addition, qualifying students will be given financial incentives during the fifth year of the program.

BACHELOR OF SCIENCE IN CIVIL ENGINEERING UNDERGRADUATE CURRICULUM REQUIREMENTS

The civil engineering curriculum requires a minimum of 126 hours of coursework and satisfies the UMCK General Education Matrix.

Freshman Year
Fall Semester
- MATH 210 [a] Calculus I             4
- CHEM 110 General Chemistry         5
- ME 110 Engineering Graphics       3
- ME 115 Essential Engineering       3
Total Hours: 15

Spring Semester
- MATH 215 Calculus II               4
- PHYS 240 Engineering Physics I     5
- COMS 110 Fund. Eff. Speaking and Listening 3
- ENG 110 [a] English I              3
Total Hours: 15

Sophomore Year
Fall Semester
- ENGL 225 Engineering Statics       3
- COMS 110 Computer Programming for Engineers 3
- CE 211 The Engineering Enterprise  3
Total Hours: 15

Spring Semester
- MATH 215 Calculus II               4
- PHYS 240 Engineering Physics II    5
- CE 211 Engineering Statics         3
- ME 115 Computer Programming for Engineers 3
Total Hours: 15

Junior Year
Fall Semester
- MATH 345 [a] Ordinary Differential Equations 4
- CE 211 The Technical Entrepreneur 3
- CE 319 Engr. Statistics and Computation 3
- CE 311 Structural Analysis         4
- CE 311 Soil Mechanics              3
- CE 311 Fluid Mechanics             3
Total Hours: 15

Senior Year
Fall Semester
- CE 311 Systems Design I            2
- CE 311 Reinforced Concrete         3
- CE 311 Highway and Traffic Engineering 3
- CE 311 Electives                   6
Total Hours: 15

Spring Semester
- CE 311 Systems Design II           3
- CE 311 Electives                   9
- General Education [e]             3
Total Hours: 15

(a) Prerequisite: Four units of high school math including trigonometry; or MATH 120 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) 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 2XX level or above.

PROGRAM DESCRIPTION

The program offers the bachelor's degree and the master's degree in civil engineering and participates in the UMCK Interdisciplinary Ph.D. program. The Bachelor of Science in Civil Engineering is accredited by the Engineering Accreditation Commission of ABET.

http://www.abet.org

The Master of Science in Civil Engineering has both thesis and non-thesis options. Students interested in pursuing a doctoral degree in civil engineering may select engineering as a discipline when applying for admission into the Interdisciplinary Ph.D. program.
The civil engineering program has a rich history in Kansas City. The University of Kansas City offered a General Engineering degree in the 1950's. The master's program in civil engineering was started in 1964 and later the undergraduate program was added in the early 1970s. Since 1977, the undergraduate program in civil engineering has been independently accredited by ABET. The program became a part of the School of Computing and Engineering (SCE) in January 2001 and is housed in Flarsheim Hall.

**STUDENT LEARNING OUTCOMES**

Engineering programs must demonstrate that their students attain:

- An ability to apply knowledge of mathematics, science, and engineering.
- An ability to design and conduct experiments, as well as to analyze and interpret data.
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- An ability to function on multi-disciplinary teams.
- An ability to identify, formulate, and solve engineering problems.
- An understanding of professional and ethical responsibility.
- An ability to communicate effectively.
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- A recognition of the need for, and an ability to engage in life-long learning.
- A knowledge of contemporary issues.
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

**CAREER OPPORTUNITIES**

Students succeed in the complex social, business, and technical environment in which their engineering contributions will be utilized. Students have the educational foundation and communication skills that prepare them for diverse career paths. Students apply the necessary problem-solving, design, and application skills for successful careers in Civil Engineering. Students have the professional skills that prepare them for immediate employment in Civil Engineering. Well prepared high school students are eligible for a combination degree program within the Department of Civil and Mechanical Engineering.

This program involves completion of a BS degree in Civil Engineering after four years and completion of an MS degree in Civil Engineering one year later. In addition, qualifying students will be given financial incentives during the fifth year of the program.

**SPECIAL ACADEMIC REGULATIONS**

Students have the professional skills that prepare them for immediate employment in Civil Engineering.

**ACADEMIC STANDING**

Students have the educational foundation and communication skills that prepare them for diverse career paths.

**GRADUATION REQUIREMENTS**

Students succeed in the complex social, business, and technical environment in which their engineering contributions will be utilized.

**FAST TRACK CURRICULUM REQUIREMENTS FOR CIVIL ENGINEERING**

The civil engineering curriculum requires a total of 156 hours of graduate and undergraduate coursework and satisfies the UMKC General Education Matrix.

### First Year

<table>
<thead>
<tr>
<th>Fall Semester Hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210(a) Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 110 General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>ME 110 Engineering Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ME 110 Essential Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester Hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 110 Engineering Physics I</td>
<td>5</td>
</tr>
<tr>
<td>COND 100 Fund. Eff. Speaking and Listening</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101 English I</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summer Semester Hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 212 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 119 Engineering Physics II</td>
<td>5</td>
</tr>
<tr>
<td>CE 111 The Engineering Enterprise</td>
<td>3</td>
</tr>
<tr>
<td>ME 111 Computer Programming for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>CE 121 Engineering Statics</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>15</td>
</tr>
</tbody>
</table>

### Second Year

<table>
<thead>
<tr>
<th>Fall Semester Hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211 Ordinary Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>CE 211 Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>ME 121 Engineering Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 211 Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 211 Electric Circuits</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>17</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester Hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 211 The Technical Entrepreneur</td>
<td>3</td>
</tr>
<tr>
<td>CE 211 Engr. Statistics and Computation</td>
<td>3</td>
</tr>
<tr>
<td>CE 211 Structural Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CE 211 Soil Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>CE 211 Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>15</td>
</tr>
</tbody>
</table>

### Third Year

<table>
<thead>
<tr>
<th>Fall Semester Hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 211 Steel Design</td>
<td>3</td>
</tr>
<tr>
<td>CE 211 Water and Wastewater Eng.</td>
<td>3</td>
</tr>
<tr>
<td>CE 211(c) Water Resources</td>
<td>5</td>
</tr>
<tr>
<td>CE 211(c) CE Materials</td>
<td>3</td>
</tr>
<tr>
<td>CE 211(c) Civil Project Design</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td>15</td>
</tr>
</tbody>
</table>

### Summer Semester Hours

<table>
<thead>
<tr>
<th>Graduate Credit Enrollment(f)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>
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 Society of Women Engineers (SWE) and the Structural Engineering Association of Kansas and Missouri (SEAKM). In these organizations, students have an opportunity to develop their career through association with other civil engineering students, the faculty, and active members of the profession. The chapters hold monthly meetings, field trips and other activities such as competing in the steel bridge and concrete canoe competitions. Membership is open to all engineering students.

Several national engineering honorary societies have also been established to recognize academic excellence. Tau Beta Pi is for all engineering majors. Assembly of Kansas and Missouri (SEAKM). In these organizations, students have an opportunity to develop their career through association with other civil engineering students, the faculty, and active members of the profession. The chapters hold monthly meetings, field trips and other activities such as competing in the steel bridge and concrete canoe competitions. Membership is open to all engineering students.

Student 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 Society of Women Engineers (SWE) and the Structural Engineering Association of Kansas and Missouri (SEAKM). In these organizations, students have an opportunity to develop their career through association with other civil engineering students, the faculty, and active members of the profession. The chapters hold monthly meetings, field trips and other activities such as competing in the steel bridge and concrete canoe competitions. Membership is open to all engineering students.

Several national engineering honorary societies have also been established to recognize academic excellence. Tau Beta Pi is for all engineering majors. Assembly of Civil Engineering Scholars (ACES) is an honorary society for civil engineering students.

Career Opportunities

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.
Mechanical Engineering

**MECHANICAL ENGINEERING**

The Bachelor of Science in Mechanical Engineering prepares students with a breadth and depth in technical knowledge so that they can work immediately in most areas of the profession.

**GRADING OPTIONS PROGRAM DESCRIPTION**

The program offers the bachelor's degree and the master's degree in mechanical engineering and participates in the UMKC Interdisciplinary Ph.D. program. The Bachelor of Science in Mechanical Engineering is accredited by the Engineering Accreditation Commission of ABET.

The Master of Science in Mechanical Engineering has both thesis and non-thesis options. Students interested in pursuing a doctoral degree in mechanical engineering may select engineering as a discipline when applying for admission into the Interdisciplinary Ph.D. program.

To accommodate part-time and working students, most of the undergraduate classes are conducted in the afternoons and graduate classes are conducted in the evenings.

The mechanical engineering program has a rich history in Kansas City. The University of Kansas City offered a General Engineering degree in the 1950's. The master's program in mechanical engineering was started in 1964 and later the undergraduate program was added in the early 1970s. Since 1977 the undergraduate program in mechanical engineering has been independently accredited by ABET. The program became a part of the School of Computing and Engineering (SCE) in January 2001 and is housed in Flarsheim Hall.

**CAREER OPPORTUNITIES EDUCATIONAL OBJECTIVES**

- Students have the professional skills that prepare them for immediate employment in Mechanical Engineering.
- Students apply the necessary problem-solving, design, and application skills for successful careers in Mechanical Engineering.
- Students have the educational foundation and communication skills that prepare them for diverse career paths.
- Students succeed in the complex social, business, and technical environment in which their engineering contributions will be utilized.

**ADMISSION**

**First-Time Admission**

High school students planning to apply to the mechanical engineering program should pursue a college preparatory program that emphasizes mathematics, science and communication skills.

- First-time college student applicants to the undergraduate program will be admitted if they obtain: (1) an ACT mathematics score of at least 25; and (2) an ACT composite score of at least 24, or a high school class rank in the upper 25 percent.
- Students seeking re-admission must have been in good academic standing when last enrolled, otherwise, re-admission requires a formal review by the department upon written appeal by the student.
- First-time college student applicants who do not meet the standard criteria but do meet UMKC general admission requirements, and have other indicators that demonstrate potential for success, may be admitted to the Civil and Mechanical Engineering Department under the "V" Modifier. The student may apply for acceptance into the mechanical engineering discipline after completing 24 semester credit hours of the required coursework with acceptable grades.
- Non-first-time college students (transfer students) will be admitted provided they have at least a 2.0 cumulative GPA and a last-term GPA of at least a 2.0 at each institution attended. Otherwise, a formal review with a written appeal by the department is required. GPA's are computed using only transferable coursework applicable toward the mechanical engineering degree. Coursework satisfactorily completed at other universities or colleges is transferable as applicable. Engineering courses are accepted only if they are from ABET-accredited engineering programs or have been approved as part of a transfer articulation agreement.
- International students transferring from non-ABET-accredited engineering programs are required to have the equivalent of a 2.5 cumulative GPA, with a cumulative GPA of at least 2.0 and a last-term GPA of at least 2.0 at each institution attended. GPA's are computed using only transferable coursework (As defined below) applicable towards the civil engineering degree.
- 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.

**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 with a written appeal by the department is required. GPA's are computed using only transferable coursework applicable toward the mechanical engineering degree. Coursework satisfactorily completed at other universities or colleges is transferable as applicable. Engineering courses are accepted only if they are from ABET-accredited engineering programs or have been approved as part of a transfer articulation agreement.

**International Transfer Credit**

Unless the international institution is recognized by ABET, only sophomore level (200 level) or below coursework may be transferred by petition and review of the academic committee. Final acceptance of transfer credit by petition requires completion of one academic year of probation. Any identified deficiencies during that probation period will, on the review of the academic committee, require remedial coursework.

**PROGRAM DESCRIPTION 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.

**PROGRAM ACTIVITES**

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 careers 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

#### 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>
<thead>
<tr>
<th>Fall Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210(a)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 117</td>
<td>5</td>
</tr>
<tr>
<td>ME 111</td>
<td>3</td>
</tr>
<tr>
<td>ME 112</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours:** 15

**Spring Semester**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220</td>
</tr>
<tr>
<td>PHYS 240</td>
</tr>
<tr>
<td>COMS 110</td>
</tr>
<tr>
<td>ENGL 225(b)</td>
</tr>
</tbody>
</table>

**Total Hours:** 15

#### Sophomore Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 245</td>
</tr>
<tr>
<td>CE 275</td>
</tr>
<tr>
<td>ME 219</td>
</tr>
<tr>
<td>ME 211</td>
</tr>
</tbody>
</table>

**Total Hours:** 15

**Spring Semester**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 345</td>
</tr>
<tr>
<td>CE 276</td>
</tr>
<tr>
<td>ME 220</td>
</tr>
<tr>
<td>ME 299</td>
</tr>
<tr>
<td>ME 285</td>
</tr>
</tbody>
</table>

**Total Hours:** 16

#### Junior Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 319</td>
</tr>
<tr>
<td>ME 324</td>
</tr>
<tr>
<td>ME 351</td>
</tr>
<tr>
<td>ME 352</td>
</tr>
<tr>
<td>ME 360</td>
</tr>
</tbody>
</table>

**Total Hours:** 16

**Spring Semester**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 306</td>
</tr>
<tr>
<td>ME 362</td>
</tr>
<tr>
<td>ME 380</td>
</tr>
<tr>
<td>ME 385</td>
</tr>
<tr>
<td>ME 399</td>
</tr>
</tbody>
</table>

**Total Hours:** 16

#### Senior Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 415</td>
</tr>
<tr>
<td>ME 456(c)</td>
</tr>
<tr>
<td>ME Elective(d)</td>
</tr>
<tr>
<td>ME Elective(d)</td>
</tr>
<tr>
<td>Constitution Req: PolSc 210/ Hist 101/102</td>
</tr>
</tbody>
</table>

**Total Hours:** 15

**Spring Semester**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 311</td>
</tr>
<tr>
<td>ME 496(c)</td>
</tr>
<tr>
<td>ME Elective(e)</td>
</tr>
<tr>
<td>ME Elective(d)</td>
</tr>
<tr>
<td>General Education(f)</td>
</tr>
</tbody>
</table>

**Total Hours:** 16

(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 2XX level or above.

### STUDENT LEARNING OUTCOMES

Engineering programs must demonstrate that their students attain:

- An ability to apply knowledge of mathematics, science, and engineering.
- An ability to design and conduct experiments, as well as to analyze and interpret data.
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- An ability to function on multi-disciplinary teams.
- An ability to identify, formulate, and solve engineering problems.
- An understanding of professional and ethical responsibility.
- An ability to communicate effectively.
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- A recognition of the need for, and an ability to engage in life-long learning.
- A knowledge of contemporary issues.
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

### B.S. IN CIVIL ENGINEERING - 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>
<thead>
<tr>
<th>Fall Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210(a)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 117</td>
<td>5</td>
</tr>
<tr>
<td>ME 111</td>
<td>3</td>
</tr>
<tr>
<td>ME 112</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours:** 15

**Spring Semester**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220</td>
</tr>
<tr>
<td>PHYS 240</td>
</tr>
<tr>
<td>COMS 110</td>
</tr>
<tr>
<td>ENGL 225(b)</td>
</tr>
</tbody>
</table>

**Total Hours:** 15

#### Sophomore Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 245</td>
</tr>
<tr>
<td>CE 275</td>
</tr>
<tr>
<td>ME 219</td>
</tr>
<tr>
<td>ME 211</td>
</tr>
</tbody>
</table>

**Total Hours:** 15

**Spring Semester**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 345</td>
</tr>
<tr>
<td>CE 276</td>
</tr>
<tr>
<td>ME 220</td>
</tr>
<tr>
<td>ME 299</td>
</tr>
<tr>
<td>ME 285</td>
</tr>
</tbody>
</table>

**Total Hours:** 16

#### Junior Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 319</td>
</tr>
<tr>
<td>ME 324</td>
</tr>
<tr>
<td>ME 351</td>
</tr>
<tr>
<td>ME 352</td>
</tr>
<tr>
<td>ME 360</td>
</tr>
</tbody>
</table>

**Total Hours:** 16

**Spring Semester**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 306</td>
</tr>
<tr>
<td>ME 362</td>
</tr>
<tr>
<td>ME 380</td>
</tr>
<tr>
<td>ME 385</td>
</tr>
<tr>
<td>ME 399</td>
</tr>
</tbody>
</table>

**Total Hours:** 16

#### Senior Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 415</td>
</tr>
<tr>
<td>ME 456(c)</td>
</tr>
<tr>
<td>ME Elective(d)</td>
</tr>
<tr>
<td>ME Elective(d)</td>
</tr>
<tr>
<td>Constitution Req: PolSc 210/ Hist 101/102</td>
</tr>
</tbody>
</table>

**Total Hours:** 15

**Spring Semester**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 311</td>
</tr>
<tr>
<td>ME 496(c)</td>
</tr>
<tr>
<td>ME Elective(e)</td>
</tr>
<tr>
<td>ME Elective(d)</td>
</tr>
<tr>
<td>General Education(f)</td>
</tr>
</tbody>
</table>

**Total Hours:** 16

(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 2XX level or above.
## 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 Transferring from Other Missouri Institutions with a 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 Department Office at (816) 235-5550.

## Special Academic Regulations

### Academic Standing Graduation Requirements

#### Fast Track

Well prepared high school students are eligible for a combination degree program within the Department of Civil and Mechanical Engineering.

This program involves completion of a BS degree in Mechanical Engineering after four years and completion of an MS degree in Mechanical Engineering one year later.

In addition, qualifying students will be given financial incentives during the fifth year of the program.

### Program Description

Student will begin with the existing undergraduate degree programs in the school. They will take the same classes as other undergraduates, carrying 15-18 credit hours per semester. If they continue to meet the requirements, they will be invited to take graduate level classes before they graduate with a B.S. degree. After graduating with a bachelor’s degree, they will continue with the graduate program in the same discipline and compete for one of ten financial incentives made available from the Dean’s office.

Sample degree programs are available from the CME Office in Robert H. Flarsheim Science and Technology Hall, Room 352.

### Curriculum Requirements

The mechanical engineering curriculum requires a total of 156 hours of graduate and undergraduate coursework and satisfies the UMKC General Education Matrix.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COND 110</td>
<td>Eff. Speaking and Listening</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 120(a)</td>
<td>English II</td>
<td>3</td>
</tr>
</tbody>
</table>

*Total Hours: 15*  

**Fall Semester Hours**

- MATH 250: Calculus III
- ENGL 225
- PHYS 250

**Spring Semester Hours**

- ME 111: Computer Programming for Engineers
- ME 211: The Engineering Enterprise

**Total Hours: 16**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 361</td>
<td>Ordinary Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 240</td>
<td>Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>ME 219</td>
<td>Electric Circuits</td>
<td>3</td>
</tr>
<tr>
<td>ME 220</td>
<td>Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 222</td>
<td>Engineering Dynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Second Year**

**Fall Semester Hours**

- ENGL 225
- COMS 110
- PHYS 250

**Spring Semester Hours**

- ME 111: The Technical Entrepreneur
- ME 415: Mechanical Design Synthesis
- ME 456: Feedback Control Systems

**Total Hours: 15**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 345</td>
<td>Calculus IV</td>
<td>4</td>
</tr>
<tr>
<td>ME 311</td>
<td>Computer-Aided Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ME 324</td>
<td>Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ME 351</td>
<td>Inst. and Meas. Lab I</td>
<td>3</td>
</tr>
<tr>
<td>ME 352</td>
<td>Thermal System Design</td>
<td>3</td>
</tr>
</tbody>
</table>

**Third Year**

**Fall Semester Hours**

- ME 285
- ME 220
- MATH 345

**Spring Semester Hours**

- ME 211: The Engineering Enterprise
- ME 219
- ME 219
- ME 285

**Total Hours: 15**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 345</td>
<td>Calculus IV</td>
<td>4</td>
</tr>
<tr>
<td>ME 311</td>
<td>Computer-Aided Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ME 324</td>
<td>Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ME 351</td>
<td>Inst. and Meas. Lab I</td>
<td>3</td>
</tr>
<tr>
<td>ME 352</td>
<td>Thermal System Design</td>
<td>3</td>
</tr>
</tbody>
</table>

**Fourth Year**

**Fall Semester Hours**

- ME 311
- ME 319
- MATH 345

**Spring Semester Hours**

- ME 319
- ME 352
- ME 351
- ME 324

**Total Hours: 15**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 345</td>
<td>Calculus IV</td>
<td>4</td>
</tr>
<tr>
<td>ME 311</td>
<td>Computer-Aided Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ME 324</td>
<td>Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ME 351</td>
<td>Inst. and Meas. Lab I</td>
<td>3</td>
</tr>
<tr>
<td>ME 352</td>
<td>Thermal System Design</td>
<td>3</td>
</tr>
</tbody>
</table>

**Outcome**

- A total of 156 hours of coursework
- The curriculum satisfies the UMKC General Education Matrix
REQUIREMENTS FOR GRADUATION

Credit Hour Requirements:
The BS+MS program in Mechanical Engineering requires:

- 126 Undergraduate Credit Hours,
- 30 Graduate Credit Hours, for a total of
- 156 Total Credit Hours.

Academic Requirements:

1. Students enrolled in the plan must maintain a 3.5 GPA in all required degree coursework.
2. Students must maintain full-time continuous enrollment for the five years of the program.
3. Only 10 students will be admitted to the program.
4. If a vacancy arises during the first two years of the program it may be filled by another qualifying student.
5. Students will follow the specific requirements of their respective bachelor’s degree program, mechanical or civil, and will do six hours of graduate coursework in the summer between the third and fourth year of the program. Six more graduate credit hours will be done in the summer immediately following the fourth year with the remaining eighteen graduate credit hours done in the fall and spring semesters of the program’s fifth year.
6. Students must be admitted to the Graduate School no later than the spring semester of their fourth year.
7. Upon successful completion of the first four years, students in the CME Fast Track Master’s Scholar program will receive either
   - A Tuition Fee Waiver for their first graduate semester.
   - A Graduate Teaching Assistantship (GTA) which includes a fee waiver for three residential credit hours, or
   - A Tuition Fee Waiver for their first graduate semester.

These are renewable for the second semester of the fifth year only if they complete at least nine credit hours during their first semester with at least a 3.50 GPA.

Financial Assistance

FINANCIAL ASSISTANCE

The University has a number of financial programs, scholarships and awards for the benefit of our students, see http://www.rfa.umkc.edu/site for opportunities available to all UMKC students. Opportunities specifically for undergraduate SCE students include a number of scholarships (see the section below). The following are available to first-time degree applicants to UMKC:

- The Chancellor’s Nonresident Award (CNR) is available to new SCE domestic students who must pay non-resident tuition.
- The Dean’s International Award for Computing and Engineering (DICE) is available to new SCE international students.

Both CNR and DICE awards are decided at the same time that the admission decision is made and no specific application form is required. The CNR and DICE are competitive awards and awarded only to the best qualified applicants. The amount of the CNR award is the Nonresident Fee Differential (up to 9 hours per semester for graduate students, 12 hours for undergraduate students), and the amount of the DICE award is maximally 85% of the Nonresident Fee Differential, depending on the student’s qualification. Both the CNR and DICE are renewable if minimum grade-point averages are maintained of 3.00 for undergraduates and 3.50 for graduate students.

Each department has also a number of graduate (research and teaching) assistantships available. Please read the pertinent information in the graduate catalog.

SCE Undergraduate Scholarships

SCE UNDERGRADUATE SCHOLARSHIPS

There are several School of Computing and Engineering scholarships available exclusively for SCE undergraduate students. To be eligible, applicants must be accepted to both UMKC and an SCE undergraduate degree program. All award recipients must maintain full-time student enrollment (minimum 12 credit hours/semester) throughout the academic year of the award.

Applications are due by January 31 for full consideration for the next fall semester’s scholarship awards; however applications are accepted and kept on file year-round should additional awards become available. Current SCE scholarship recipients must re-apply each year before January 31 to be considered for the next academic year. For the most current list of scholarships, qualifications and applications please visit the SCE Scholarship Web page at http://www.umkc.edu/sce or e-mail UMUC-SCEScholarships@umkc.edu for additional information.

SCE scholarships include:
SCE UNDERGRADUATE SCHOLARSHIPS

Department of Computer Science & Electrical Engineering

DEPARTMENT OF COMPUTER SCIENCE ELECTRICAL ENGINEERING

Robert H. Flarsheim Science and Technology Hall
5110 Rockhill Road, Room 546
(816) 235-1193
Fax: (816) 235-5159
csee@umkc.edu
http://www.csee.umkc.edu/

Mailing Address
University of Missouri-Kansas City
Department of Computer Science Electrical Engineering
546 Flarsheim Hall
5100 Rockhill Road
Kansas City, MO 64110-2499

Chair: Appie van de Liefvoort
Associate Chair: Ghulam M. Chaudhry
Curators' Professor: Khosrow Sohraby (associate dean of research)
Professors:
Ghulam M. Chaudhry (associate chair), Lein Harn, Vijay Kumar, Deep Medhi, E.K. Park (currently on leave as program director at NSF), Xiaojun Shen, Appie van de Liefvoort (chair)
Research Professor:
Richard Hetherington
Honorary Professor:
Wen Gao (Peking University, Beijing, China)
Associate Professors:
Cory Beard, Deb Chatterjee, Deendayal Dinakarpandian, Yijie Han, Jerome Knopp, Yuyung Lee, Ken Mitchell, Jerry Place (associate dean of academics)
Associate Teaching Professor:
Judy Mullins
Assistant Professors:
Baek-Young Choi, Reza Derakhshani, W. Daniel Leon-Salas, Praveen Rao, Yu-Ping Wang, Chuanjun Zhang
Assistant Professor Emeritus:
David Skitek
Visiting Assistant Professor:
Oleg Gusak
Assistant Teaching Professors:
Eddie Burris, Robert Cotter, Brian Hare, Mark Hieber, Kevin Kirkpatrick
Adjunct/Affiliate Faculty:
Charlie Bi (Children's Mercy Hospital), Mark Hoffman (Cerner), Jeff Rydberg-Cox (associate professor and chair, English language and literature)
Adjunct Instructors:
Naveed Ahmed, Fred Granville, Reza Jafari, Mike Kelly, Kelly Kerns, Mark Lehrhof, Naresh Mathur, S. Sankar, Saul Spatz

Description

- Student Organizations
- Financial Assistance
- Undergraduate Programs
- Academic Regulations
  - Academic Load
  - Academic Standing
  - Repeating a Course
  - Auditing a Course
  - Academic Dishonesty
  - Appeals
- Graduation Requirement
- Bachelor of Information Technology
  - Educational Objectives
  - Career Implications
- Student Learning Outcomes
- Admission Requirements
- Advising and Registration
- Curriculum Requirement
- Specialty Areas
- Four Year Program Sample
- Bachelor of Science Bachelor of Arts in Computer Science
  - Educational Objectives
  - Career Implications
CSEE UNDERGRADUATE PROGRAMS

The CSEE department administers undergraduate degree programs in:

- Computer Science (B.A. in CS, B.S. in CS)
- Electrical and Computer Engineering (B.S. in ECE)
- Information Technology (Bachelor of IT)

A Fast Track Option for completing both an undergraduate degree and a masters degree within five years is available for CS and ECE/EE, as described below. Furthermore, a minor in computer science is available as well.

The two degrees in computer science are the bachelor of arts in computer science (B.A. with a liberal arts perspective), and bachelor of science in computer science (B.S. with a more thorough technical perspective). The B.S. degree has optional concentrations or emphasis areas in software engineering, computer networking and bioinformatics. The degree prepares the student for work in these industries, as well as for pursuing further graduate education in these areas. The bachelor of science in electrical and computer engineering (B.S.) is for students wanting to pursue a career in electrical engineering or electrical and computer engineering. The bachelor of information technology (B.I.T.) degree caters to the needs of the IT industry and uniquely blends both computer science and business coursework.

Certified General Education Core at Another Missouri Institution

Students wanting to transfer into the CSEE department with a certified 42-hour block of general education credit from another Missouri institution are strongly encouraged to consult an academic adviser in our department in addition to the adviser at their home institution. Contact the department office at (816) 235-1193. This ensures coursework taken in this block also satisfies specific degree requirements in our department.

STUDENT ORGANIZATIONS

The ACM 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. These organizations include:

- ACM (Association for Computing Machinery) is the leading professional organization in Computer Science and its student chapter is very active. Among others, it sponsors and participates in numerous programming and web design contests.
- AITP (Association of Information Technology Professionals) caters to the interest of both information technology students and business students. Their office is in the Henry W. Bloch School of Business and Public Administration.
- IEEE is the world's leading professional association for the advancement of technology. As such, many (if not most) electrical and computer engineers, computer scientists, and information technology professionals are members of IEEE. Our student chapter, one of 452 branch chapters, won the prestigious Region 5 KAB Student Branch Membership Growth and Leadership Award in 2003, the Region 5 Student Branch Web Site Contest in 2005 and 2008, and was Runner Up in the IEEE International Student Branch Web Site Contest, also in 2005.
- Eta Kappa Nu is the Honor Society in Electrical and Computer Engineering. The student chapter at UMKC, Theta Pi, was installed in 1980.
- Upsilon Pi Epsilon is the International Honor Society for the computing and information discipline. A UPE student chapter was founded in 2004.

DESCRIPTION

The CSEE Department has about 28 full-time faculty members, including a Curators' professor, a UMKC Trustee's professor and two Fulbright Senior Specialists. Our faculty is at the forefront in research with funding from NSF and industries. We have strong partnerships with:

- Black & Veatch
- Burns & McDonnell
- Cerner
- General Electric
- Honeywell
- Sprint Nextel

most of which are headquartered in the Kansas City area.

In the life sciences area, we are strengthening partnerships with life and health sciences schools at UMKC and life sciences partners in the Kansas City area through the Kansas City Area Life Sciences Institute (KCALSI).

We have research strengths in the following areas:

- Networking and Telecommunications (design, protocols, routing, security, teletraffic modeling and analysis, monitoring, performance modeling, RF/wireless communication, optical, mobile computing, sensors, queueing theory, etc.)
- Software Engineering and Systems (object-oriented design and analysis, database/information management, middleware, intelligent agents, peer-to-peer computing, mobile databases, data mining, knowledge discovery, intrusion detection, etc.).
- Bio-Informatics (biological data mining, functional property based protein databases, intelligent software agents in biology, biometric signal processing, computational genomics, etc.).
- Communications, Signal and Image Processing (digital signal processing, computational electromagnetics, RF and antenna theory and design, biomedical image processing, biometrics, neural networks, etc.).
- Computer Engineering (VLSI and mixed-signal chip design, performance and design of low power devices (including memories), embedded systems, System-On-Chip (SOC) and ASIC/FPGA design).
- Algorithms (complexity, distributed and parallel computations, graph, optimization, and combinatorial algorithms).

The CSEE department is committed to excellence in teaching. We stay on the top of the technology curve and continually offer new courses in emerging/hot topics. Our graduates are sought after by regional as well as national companies.

Approximately 610 students were enrolled in the CSEE department in the Fall 2007 semester: 310 at the undergraduate level (all degree programs), 270 at the masters level (both CS and EE), and 35 students participated in UMKC's Interdisciplinary Ph.D. program through a discipline in CSEE.

Fast Track Computer Science Program

Program Description

- Five Year Program Sample
- Requirements for Graduation

Minor in Computer Science

Bachelor of Science in Electrical and Computer Engineering

Program Description

- Five Year Program Sample
- Requirements for Graduation

Concentration Areas

- Computer Science (CS)
- Information Technology (IT)
- Electrical and Computer Engineering (ECE)
ACADEMIC REGULATIONS
All students pursuing an undergraduate degree in the Department of CSEE, i.e. the Bachelor in Information Technology (IT), B.A. in Computer Science (CS), B.S. in CS, or B.S. in Electrical and Computer Engineering (ECE), must follow all academic regulations as specified in the following sections.

ACADEMIC LOAD
For a student to complete the degree in four years, it is imperative that the student takes about 15 credit hours worth of coursework each semester (not including summer). The 4-year program samples shown for each degree below are meant as a planning guideline for students. For a student wanting to complete both an undergraduate degree and a graduate degree in five years should consult one of the sections on our Fast Track Program.

ACADEMIC STANDING
The University tries to assure that students progress satisfactorily toward their goals and receive clear warning when they do not. To this end, this academic program adheres to a clear policy, but provides for exceptions in unusual cases. The interest of the student is paramount.

Good Academic Standing
A student is in good academic standing when term grade-point average (T-GPA), cumulative grade-point average (C-GPA), and grade-point average in courses necessary for their degree program (D-GPA) from the University of Missouri system are all 2.0 or higher. If a student starts a semester in good academic standing, and receives a T-GPA or D-GPA less than 2.00 (but higher than 1.00), then the student is placed on academic probation. If a student starts a semester in good academic standing, and receives a T-GPA or D-GPA less than 1.00, then the student becomes ineligible to continue their degree objective.

Academic Probation
A student who is placed on probation must return to good academic standing in one or two semesters, under the following restrictions: If the T-GPA, D-GPA, and C-GPA are all 2.0 or higher at the end of the first semester, then the student is returned to Good Academic Standing. If the T-GPA is 2.0 or higher for the first probationary semester, then the student will be allowed to enroll for a second and final probationary semester. If the T-GPA is less than 1.0, the student becomes ineligible to continue their degree objective. Note: Students may also be placed on academic probation at the time of initial admission or readmission because they do not fully meet the minimum standards.

Academic Ineligibility
Students become ineligible to continue their degree objective if either T-GPA or D-GPA is less than 1.0, or if the T-GPA is less than 2.0 in a probationary semester.

Grade Reports
The academic standing statements found at the top of semester grade reports are only calculated from T-GPA and C-GPA (the D-GPA is not incorporated and will be calculated by your adviser) and are defined as follows:

- Now In Good Standing - Term and cumulative GPA greater than 2.0.
- Now On Probation - Term or cumulative GPA less than 2.0.
- Academically Ineligible - Term GPA less than 1.0 or two consecutive semesters with term or cumulative GPA less than 2.0.

REPEATING A COURSE
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 regarding the degree requirements (e.g. transfer courses taken elsewhere, course waivers, waivers of residency) must be requested through a written petition. The petition form is available from the CSEE Department Office. The completed petition that includes an explanation for the petition should be submitted to the CSEE Department Office with any necessary documents attached. The Degree Program Coordinator or his/her designee will review such petitions and will communicate the result to the student.

GRADUATION REQUIREMENT
For students to obtain an undergraduate degree in the Department of CSEE, they must have passed the courses as specified in various categories under the header Curriculum Requirement for the desired degree, B.T, B.A. in CS, B.S. in CS, or B.S. in ECE. In addition, there are a number of University-wide degree requirements and a number of restrictions that apply:

1. Not more than three of the courses CS 140 through 149 and 240 through 249 may be counted.
2. ENGL 299 does not count towards 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 count individual coursework in CS, ECE, or IT toward the degree if at least a C (2.0) is earned.
7. Can transfer individual coursework in CS, ECE, or IT toward the degree if the coursework is from an ABET accredited degree program in either computing or engineering or if the coursework is part of a transfer articulation agreement for which the student received at least a C (2.0).
8. The final 30 consecutive credit hours of course work must be taken at UMKC.
9. Participation in University-sponsored assessment tests is a prerequisite for graduation; and exit interview may also be required.
10. Students who have completed 90 hours of credits should file an application for graduation and make an appointment for a degree check. Appointments may be made by calling (816) 235-1193. Students who are pursuing a second undergraduate degree must complete a minimum of 30 additional credit hours from UMKC, of which a minimum of 12 credit hours are from junior/senior level courses.

BACHELOR OF INFORMATION TECHNOLOGY
The use of computers in commerce and industry keeps the college educated IT professional at the forefront of occupational demand. The Bachelor of Information Technology (B.I.T.) program prepares for a career path where the student contributes to the continued deployment of technology infrastructure, (operating systems, browsers, applications, softwares, networking, etc.). It blends both CS, IT, and Business coursework and requires an internship for the completion of the degree. Students wishing to do graduate work in Computer Science should work towards the Bachelor of Science degree in Computer Science. Please contact our department for more info, please call (816) 235-1193, or e-mail to csee@umkc.edu.

EDUCATIONAL OBJECTIVES
The degree of Bachelor in I.T. is designed so that graduates will attain employment in an IT related field. Some graduates will achieve appropriate certifications and/or will pursue advanced study in business, IT or other fields. Graduates will be engaged in lifelong learning and thereby advance in their careers.

CAREER IMPLICATIONS
There remains a large and growing number of unfilled IT positions both nationwide and within the Kansas City area. B.I.T. graduates are typically employed as software developers, network specialists, web developers, information system operators, programmer analysts, digital media specialists and database administrators. The need of the future is for students with an analytic and
problem solving mindset who are able to adapt quickly to an ever-changing environment.

**STUDENT LEARNING OUTCOMES**

Prior to graduation, students will develop a sound analytical mindset based in a foundation of algorithmic principles and computer science theories. They will demonstrate a basic understanding of the necessary technologies and tools that pertain to the construction of software processes, components, or programs of varying complexity to solve problems. They will demonstrate the ability to develop and deploy computer systems in a user-oriented environment, and work effectively on teams to manage system development projects. They will understand their professional, ethical and social responsibilities and communicate effectively with a range of audiences. They will recognize the need for, and will be able to engage in, continuing professional development.

In particular, they will apply the core technologies from computer science and information technology when solving problems in such areas as:

- Software development
- Network operation and administration
- Digital media
- Database administration
- Web engineering

They will develop an in-depth understanding of the business context where these technologies will be employed and will have appropriate business experience through the internship program.

**ADMISSION REQUIREMENTS**

Although there are no specific admission requirements to this undergraduate degree program other than those specified for admission to the University of Missouri-Kansas City, students contemplating a major in information technology are strongly urged to take as many science and mathematics courses in secondary school as possible. Students without the prerequisite preparation must take the needed coursework before enrolling in courses required for the bachelor's degree. Students seeking re-admission must have been in good academic standing when last enrolled. Otherwise, re-admission requires a formal review by the undergraduate program committee.

Transfer students (i.e., from community colleges) will be admitted provided they have at least a 2.0 cumulative GPA; however, a higher GPA is strongly recommended for students pursuing this rigorous degree program. Their coursework is accepted for transfer credit per university-wide policy, but will replace degree requirements only if a grade of C or higher is obtained and if either their content is equivalent to course requirements of the degree program/courses at the University of Missouri-Kansas City or the transfer is approved as part of a transfer articulation agreement. Not all courses taken at other institutions will transfer, and if they transfer, they might not satisfy specific degree requirements. Students taking courses at other institutions are welcome (and encouraged) to check the transferability of coursework before taking these courses at the home institution.

**ADVISING & REGISTRATION**

For advising in regard to their degree programs, students need to contact the CSEE Department 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 Department office to schedule this appointment. The faculty adviser guides the student in selecting courses that are necessary for completion of degree requirements. They will develop an in-depth understanding of the business context where these technologies will be employed and will have appropriate business experience through the internship program.

For advising in regard to their degree programs, students need to contact the CSEE Department 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 Department office to schedule this appointment. The faculty adviser guides the student in selecting courses that are necessary for completion of degree requirements. They will develop an in-depth understanding of the business context where these technologies will be employed and will have appropriate business experience through the internship program.

**CURRICULUM REQUIREMENTS**

Coursework requirements for the B.I.T. degree are categorized into several areas totaling at least 120 hours of study.

- Computer Science/Information Technology (42 Hours)
  - CS 101 Prob. Solv. & Prog I
  - CS 103 Discrete Structures I
  - CS 201 Prob. Solv & Prog II
  - CS 205 Intro to Computer Architecture
  - CS 210 Discrete Structures II
  - CSEU 1 Ethics and Professionalism
  - CS 271 Data Structures & Algorithms
  - CS 371 Intro. to Operating Systems
  - CS 372 Prog. Lang. Design & Implementation
  - CS 373 Intro. to Database Mgmt. Systems
  - CS 374 Database Design, Implementation & Validation
  - IT 371 Intro. to Computing Resources Admin.
  - IT 374 Multimedia Production & Concepts
  - IT 471 Advanced Programming Specialty Elective
  - IT 475 Course Specialty I
  - IT 476 Course Specialty II

- General Education Synthesis (3 Hours)
  - CS 241 Software Engineering

- Anatomy of Business (18 Hours)
  - Acct 210 Principles of Accounting
  - Acct 310 Intro. to Managerial Accounting
  - MGT 223 Elements of Marketing
  - MGT 225 Concepts
  - GSM 324 Operations Management
  - Business Electives:
    - Choose two of the following:
    - MGT 425, MGT 332, FIN 325, ENT 215.

- Life and Physical Sciences (8-10 Hours)
  - One Life Science
  - One Physical Science
  - To include at least one laboratory component

- Mathematics (7 Hours)
  - MATH 210 Calculus I
  - MATH 211 Statistics

- Social and Behavioral Sciences (9 Hours)
  - RIST 100, 102, 306 or POLS 210
  - ECON 200 Introduction to Economics I
  - Elements: Criminal Justice, Geography, Economics, History, Political Science, Psychology, Social Science or Sociology

- Communicating (9 Hours)
  - ENGL 110 Freshman English I
  - ENGL 111 Freshman English II
  - COMG 175 Fundamentals of Speech
Admission Requirements

Although there are no specific admission requirements to this undergraduate degree program other than those specified for admission to the University of Missouri-Kansas City, students contemplating a major in computer science are strongly urged to take as many science and mathematics courses in high school as possible. Students without the recommended preparation must take prerequisite coursework in order to prepare for enrollment in courses required for the bachelor’s degree.

Students seeking re-admission must have been in good academic standing when last enrolled. Otherwise, re-admission requires a formal review by the undergraduate program committee.

Transfer students (i.e., from community colleges) will be admitted provided they have at least a 2.0 cumulative GPA; however, a higher GPA is strongly recommended for students pursuing this rigorous degree program. Their coursework is accepted for transfer credit per university-wide policy, but will replace degree requirements only if a grade of C or higher is obtained and if either their content is equivalent to course requirements of the degree program/courses at the University of Missouri-Kansas City or the transfer is approved as part of a transfer articulation agreement. Not all courses taken at other institutions will transfer, and if they transfer, they might not satisfy specific degree requirements. Students taking courses at other institutions are welcome (and encouraged) to check the transferability of coursework before taking these courses at the home institution.

Four Year Program Sample

The following sample four-year program, designed for incoming freshmen, illustrates the careful planning necessary to complete the B.S.-C.S. degree. All students are urged to construct such a four-year plan, in consultation with a Computer Science degree adviser, as early as possible. While subsequent changes are likely, maintaining a four-year plan provides a coherent path toward the degree. Since the B.A.-C.S. degree requires a subset of courses as far as Computer Science and Mathematics are concerned, they are not shown separately.

First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101</td>
<td>3</td>
</tr>
<tr>
<td>ENGS 100</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 222</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>12</td>
</tr>
</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 191</td>
<td>3</td>
</tr>
<tr>
<td>MATH 220</td>
<td>3</td>
</tr>
<tr>
<td>MATH 210</td>
<td>4</td>
</tr>
<tr>
<td>Humanities and Fine Arts Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>16</td>
</tr>
</tbody>
</table>

Specialty Areas

B.I.T. students may take courses from the following specialty areas:

- **Media Design**
  - IT 222
- **Networking**
  - IT 321, CS 420, CS 421 or CS 490NA
- **Programming**
  - IT 350, CS 461, CS 473, CS 456 or CS 475

Other courses are routinely available as special topics courses, such as IT 490 IT. Please see your adviser or check the actual course offerings.

Bachelor of Science and Bachelor of Arts in Computer Science

These degree programs serve to give the student excellent preparation for computer science, for graduate study, or for fields where CS is an important ingredient. Students receive a strong technical background in computer science, which is coupled with a broad, general education. The BS degree prepares for a career path where the student contributes to the continued development of technology infrastructure, (operating systems, browsers, applications, softwares, networking, etc). The BA degree prepares for a career path where the student contributes to advancing infrastructures tailored for specific areas, often outside the core areas of computer science. A Fast Track Option for completing both a BS in CS and a MS in CS in five years is available, [see below]. Furthermore, a minor in Computer Science is available as well. Contact info: (816) 235-1193, or see our web page care@umkc.edu.

Educational Objectives

The undergraduate degrees in CS are designed so graduates will attain employment and advance their careers in industry, government and academia. BS students find employment in CS related fields, and BA students will find employment in fields where computing is an important ingredient. Some graduates will achieve appropriate certifications and/or pursue advanced study in computer science or other graduate fields. Graduates will be engaged in lifelong learning and thereby advance in their careers.

Career Implications

Computers of all sizes and descriptions appear in every area of the public and private sectors. Consequently, employment prospects for computer science degree holders remain steady. Current projections have the demand for computer science graduates exceeding the supply for many years to come. The range of opportunities open to the new graduate in computer science is impressive.

Computer science graduates are employed as members of technical staffs, software engineers, programming or systems analysts, and scientific or applications programmers by some of the nation’s largest companies. These companies include computer manufacturers, other electronics manufacturers, the communications industry, the defense industry, engineering firms and other commercial concerns.

Admission Requirements

Transfer students (i.e., from community colleges) will be admitted provided they have at least a 2.0 cumulative GPA; however, a higher GPA is strongly recommended for students pursuing this rigorous degree program. Their coursework is accepted for transfer credit per university-wide policy, but will replace degree requirements only if a grade of C or higher is obtained and if either their content is equivalent to course requirements of the degree program/courses at the University of Missouri-Kansas City or the transfer is approved as part of a transfer articulation agreement. Not all courses taken at other institutions will transfer, and if they transfer, they might not satisfy specific degree requirements. Students taking courses at other institutions are welcome (and encouraged) to check the transferability of coursework before taking these courses at the home institution.

Four Year Program Sample

The following sample four-year program, designed for incoming freshmen, illustrates the careful planning necessary to complete the B.S.-C.S. degree. All students are urged to construct such a four-year plan, in consultation with a Computer Science degree adviser, as early as possible. While subsequent changes are likely, maintaining a four-year plan provides a coherent path toward the degree. Since the B.A.-C.S. degree requires a subset of courses as far as Computer Science and Mathematics are concerned, they are not shown separately.

First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 191</td>
<td>3</td>
</tr>
<tr>
<td>CS 201</td>
<td>3</td>
</tr>
<tr>
<td>CS 411</td>
<td>3</td>
</tr>
<tr>
<td>CS 343</td>
<td>3</td>
</tr>
<tr>
<td>MATH 210</td>
<td>4</td>
</tr>
<tr>
<td>Humanities and Fine Arts Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>16</td>
</tr>
</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 291</td>
<td>3</td>
</tr>
<tr>
<td>MATH 220</td>
<td>3</td>
</tr>
<tr>
<td>MATH 210</td>
<td>4</td>
</tr>
<tr>
<td>Constitution Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Humanities and Fine Arts Elective</td>
<td>3</td>
</tr>
</tbody>
</table>
**FAST TRACK PROGRAM IN COMPUTER SCIENCE**

This program offers students an opportunity to meet the full requirements of the existing BS and MS degree programs in a shorter time period than the separate degree programs by completing a B.S. degree in Computer Science within four years and then completing an M.S. degree in Computer Science in their fifth year. In addition, and starting in the Fall semester 2010, qualifying students can continue to meet the requirements, they will be invited to take graduate level classes before they graduate with a BS degree. After graduating with a BS degree, they will continue with the graduate computer science curriculum.

**Admission Requirements for Fast Track**

Students must meet the following entrance requirements:

1. UMKC cumulative GPA of 3.50 or higher.
2. ACT Math of 28 or higher.
3. No single grade below C (2.00) in any coursework in STEM (Science, Technical, Engineering or Mathematics) fields from another college.
4. Cumulative GPA of 3.00 in any previous college credit.
5. Must start at UMKC/CSEE within one year of High School graduation.

Students are expected to follow the recommended curriculum (although deviations are possible) and must maintain:

1. UMKC cumulative GPA of 3.50 or higher.
2. A minimal course grade of 2.00 or higher for every course attempted in the CSEE department.

Students are admitted into the graduate program in the spring semester of their fourth year. Upon successful completion of the first four years, the students will compete (together with the students in the fast track program for the ECE/EE degree in this department) for one of ten financial incentives, in the form of a fee reimbursement,a graduate assistantship or graduate teaching assistantship. Assistantships includes a fee waiver for three residential credit hours. The incentive is renewable for the second semester of the fifth year only if they complete at least nine credit hours during their first semester with at least a 3.50 GPA. (Should a student be offered a graduate research assistantship (GRA) with a faculty member of this department in either of the two semesters of their fifth year, then the Department withdraws the financial offer for that semester.)

**Program Description**

Students will begin with the existing undergraduate degree programs in the school. They will take the same classes as other undergraduates, carrying 15-18 credit hours per semester. If they continue to meet the requirements, they will be invited to take graduate level classes before they graduate with a BS degree. After graduating with a BS degree, they will continue with the graduate program and compete for one of ten financial incentives the Dean has made available for the Department, starting Fall Semester 2010. Until 2010, students will still be able to graduate with two degrees in five years, even though financial incentives are not yet available.

**Five Year Program Sample**

The computer science curriculum requires a total of 150 hours of undergraduate and graduate coursework and satisfies the requirements for both the B.S. in CS and M.S. in CS degrees. This is a sample only, and adjustments can be made for particular situations, please see an adviser to tailor a degree program.

### First Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210 Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 110 Freshman English 1</td>
<td>3</td>
</tr>
<tr>
<td>COMS 110 Fundamentals of Effective Speaking</td>
<td>3</td>
</tr>
<tr>
<td>CS 101 Problem Solving &amp; Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 191 Discrete Structures I</td>
<td>3</td>
</tr>
</tbody>
</table>

---

### Five Year Program Sample

The computer science curriculum requires a total of 150 hours of undergraduate and graduate coursework and satisfies the requirements for both the B.S. in CS and M.S. in CS degrees. This is a sample only, and adjustments can be made for particular situations, please see an adviser to tailor a degree program.
<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring Semester</td>
<td></td>
<td>General Elective</td>
<td>1</td>
</tr>
<tr>
<td>Total Hours</td>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall Semester</td>
<td></td>
<td>MATH 220 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENGL 225 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHYS 240 Physics for Science and Engr. I</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CS 281 Intro. to Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Second Year</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall Semester</td>
<td></td>
<td>MATH 250 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHYS 250 Physics for Science and Engr. II</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CS 282 Assembler Language Programming</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CS 291 Discrete Structures II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Constitution Requirement(a)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WEPT</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
<td>MATH 235 Statistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CS 304WI Ethics and Professionalism</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CS 352 Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CS 393 Num. Analysis &amp; Symb. Computation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Art/Art History/Fine Arts Elective(b)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Third Year</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall Semester</td>
<td></td>
<td>BIDS 108 General Biology I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIDS 108L General Biology I Lab</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CS 253 Applied Probability</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CS 257 Programming Languages - Design and Implementation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CS 281 Advanced Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Social and Behavioral Science Elective(c)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
<td>CS 281 Found. of Data Networks</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CS 305 Introduction to Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CS 307 Software Architecture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Computer Science Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Social and Behavioral Science Elective(c)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fourth Year</td>
<td></td>
<td>CS 281 Intro. to SMMU</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Computer Science Electives from Graduate Accepted List</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General Electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Computer Science Graduate Course(d)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
<td>Computer Science Graduate Courses(d)</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fifth Year</td>
<td></td>
<td>Computer Science Graduate Courses(d)</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
<td>Computer Science Graduate Courses(d)</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(a) Constitution Requirement may be satisfied by taking either HIST 101, 102, 368R or POLSC 210.
(b) Fine Arts electives include art/art history, conservatory or theatre.
(c) Social and Behavioral Science electives include criminal justice, economics, geography, history, political sciences, psychology, social science or sociology.
(d) Graduate credit enrollment has degree specific requirements and faculty adviser will work out details of the program in consultation with the student.

**Requirements for Graduation**

**Credit Hour Requirements:**

The BS and MS program in Computer Science requires:

- 120 Undergraduate Credit Hours,
- 30 Graduate Credit Hours, and
- 150 Total Credit Hours.

**Academic Requirements:**

The academic requirements for both degrees are identical to the requirements for the two degrees when considered separately, with a few additions and exceptions.

1. Students enrolled in the plan must maintain a 3.50 cumulative GPA for all UMKC coursework.
2. Students must receive a minimum grade of C (2.0) in every course attempted in the CSEE Department.
3. Students should follow the recommended sample program in order to graduate within five years, but variations are possible.
4. The degree requirements for a BS in CS includes four CS advanced electives: (CS 420 or CS 421), (CS 470 or CS 471), plus two additional CS advanced electives. For students in the Fast Track, at least two of these four courses must be from the approved list of courses that graduate students can count towards their graduate studies, thus they must take (at least) two courses from CS 411, 421, 423, 425, 457, 458, 461, (CS 470 or CS 471, not both), CS 493 and CS 494R.
5. Students must be admitted to the Graduate School in the spring semester of their fourth year.
6. Upon successful completion of the first four years, the students will compete for one of ten financial incentives available for the two departmental Fast Track programs. See above.
7. The degree requirements for the Fast Track M.S. in CS is identical to that of the M.S. in CS under the `non-thesis` option, composed of the 30 hours of graduate credit in combination with the two courses taken as an undergraduate that were selected from the list above.

For additional details, please contact our Department by phone (816) 235-1193 or by e-mail mailto:sce@umkc.edu
**MINOR IN COMPUTER SCIENCE**
For students to obtain a minor in Computer Science, they must satisfy all University degree requirements (see the General Undergraduate Academic Regulations and Information section in this catalog), satisfy the requirements as set forth by the major degree (major department, major academic unit) and must obtain a GPA of 2.0 or higher in the eight courses (24 credit hours) specified below, with no individual computer science grade below a C (2.0).

There are no other requirements specifically required by the minor, although some of the courses do have prerequisites from outside of SCE. In particular, MATH 110 and MATH 210 are prerequisites for CS 101, CS 191 and CS 352.

<table>
<thead>
<tr>
<th>Computer Science Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101 Problem Solving &amp; Programming I</td>
</tr>
<tr>
<td>CS 281 Discrete Structures I</td>
</tr>
<tr>
<td>CS 291 Discrete Structures II</td>
</tr>
<tr>
<td>CS 301 Problem Solving and Programming II</td>
</tr>
<tr>
<td>CS 302 Introduction to Computer Architecture</td>
</tr>
<tr>
<td>CS 352 Data Structures and Algorithms</td>
</tr>
<tr>
<td>CS 4XX Two Senior Level Electives</td>
</tr>
<tr>
<td><strong>Total Credit Hour Requirement</strong></td>
</tr>
</tbody>
</table>

**BACHELOR OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING**
The Bachelor of Science in Electrical and Computer Engineering (BS-ECE) is accredited by the Engineering Accreditation Commission of ABET.

The ECE program is designed to provide the key elements of both an electrical engineering and a computer engineering curriculum. It also provides additional courses that involve the business and entrepreneurial aspects of engineering. Graduates of this program are prepared for larger breadth in job opportunities than are typically available in a traditional electrical engineering program. A Fast Track Option for completing both a BS in ECE and a MS in EE in five years is available, [see below](http://www.abet.org). For additional information or an advising appointment, please contact our office by phone (816) 235-1193 or e-mail to sce@umkc.edu.

**EDUCATIONAL OBJECTIVES**
The undergraduate degree in ECE is designed so that graduates will attain employment in electrical and computer engineering and advance their careers in this field or areas such as business and law. Some graduates will become registered professional engineers and/or pursue advanced studies.

**CAREER IMPLICATIONS**
Job opportunities abound for engineering majors. In terms of starting salaries and the number of job offers, engineering graduates compare favorably with other graduates. In addition, the ECE curriculum at UMKC equips the graduate with the analytical decision-making skills necessary to pursue diverse technical, managerial and entrepreneurial career opportunities.

**STUDENT LEARNING OUTCOMES**
Prior to graduation, students will have demonstrated that they have an ability to apply knowledge of mathematics, science, and engineering, that they can design and conduct experiments, including the analysis and interpretation of data. They can design a system, circuit, or process to meet desired needs within realistic constraints. They can effectively work on a team to identify, formulate, and solve engineering problems. They understand their professional and ethical responsibilities. They are able to communicate effectively, and have received the broad education necessary to understand the impact of engineering solutions in a broader context. They recognize the need for, and are able to engage in life-long learning. They are able to use the techniques, skills, and modern engineering tools necessary for engineering practice.

**ADMISSION REQUIREMENTS**
High school students planning to apply to the electrical and computer engineering program should pursue a college preparatory program that emphasizes mathematics, science and communication skills.

First-time college student applicants to the undergraduate program in electrical and computer engineering will be admitted if they obtain:

1. An ACT mathematics score of at least 25 and
2. An ACT composite score of at least 24 or a high school class rank in the upper 25 percent.

First-time college student applicants who do not meet the above criteria but do meet UMKC general admission requirements may be admitted on probation.

Students seeking re-admission must have been in good academic standing when last enrolled. Otherwise, re-admission requires a formal review by the degree program committee.

Transfer students will be admitted provided they have at least a 2.0 cumulative GPA; however, a higher GPA is strongly recommended for students pursuing this rigorous degree program. Degree program courses for which the student received a C or higher are accepted only if they are from ABET-accredited engineering or computing degree programs or have been approved as part of a transfer articulation agreement.

**CURRICULUM REQUIREMENT**

<table>
<thead>
<tr>
<th>Electrical and Computer Engineering/Computer Science (Minimum 61 Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science Minor (36 hours)</td>
</tr>
<tr>
<td>ECE 216 Engineering Computation</td>
</tr>
<tr>
<td>ECE 267 Logic Design</td>
</tr>
<tr>
<td>ECE 275 Logic Design Lab</td>
</tr>
<tr>
<td>ECE 277 Circuit Theory</td>
</tr>
<tr>
<td>ECE 280 Traveling Waves &amp; Fields</td>
</tr>
<tr>
<td>ECE 282 Traveling Waves &amp; Fields Lab</td>
</tr>
<tr>
<td>ECE 283 Electronic Circuits</td>
</tr>
<tr>
<td>ECE 291 Electronic Circuits Lab</td>
</tr>
<tr>
<td>ECE 292 Systems Lab</td>
</tr>
<tr>
<td>ECE 293 Cont. &amp; Discrete Signals</td>
</tr>
<tr>
<td>ECE 295 Cont. &amp; Discrete Signals Lab</td>
</tr>
<tr>
<td>ECE 296 Senior Design I</td>
</tr>
<tr>
<td>ECE 297 Senior Design II</td>
</tr>
<tr>
<td>ECE 381 Microcomputer Architecture</td>
</tr>
<tr>
<td>ECE 382 Embedded Systems</td>
</tr>
<tr>
<td>ECE 383 Embedded Systems Lab</td>
</tr>
<tr>
<td>CS 291 Discrete Structures II</td>
</tr>
</tbody>
</table>
CS 352 Data Structures and Algorithms 3
CS 431 Intro. to Operating Systems 3
Senior Electives: 4 courses, see below for options and restrictions 12

General Engineering (9 Hours)
ME 411 Essential Engineering 3
CE 411 The Engineering Enterprise 3
CE 411 The Technical Entrepreneur 3

Life and Physical Sciences (15 Hours)
CHEM 311 General Chemistry I 4
CHEM 311L General Chemistry I, Lab 1
PHYS 311 Physics for Science and Engr. I 5
PHYS 311 Physics for Science and Engr. II 5 * Students with high school chemistry may petition to take BIOL 108/108L instead.

Mathematics (19 Hours)
MATH 210 Calculus I 4
MATH 210 Calculus II 4
MATH 210 Calculus III 4
ECE 311 Engineering Mathematics 4
CS 311 Applied Probability 3

Social and Behavioral Sciences (9 Hours)
HIST 111, 112, 360R or POLSC 210 3 * Meets MO constitution requirement
ECON 201 Introduction to Economics I 3
- 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)
ENGR 220 English II 3
COMS 110 Fund. Effect. Speaking and List. 3
WEPT 0

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: 125

Concentration Areas
In order to graduate, a student must choose four senior electives. Of these four courses, three must have the ECE curricular designation. Furthermore, of these four, at least two must be from within one concentration area. The following concentration areas are recognized:

Communication and Networking
ECE 412, ECE 474, ECE 476, CS 420, CS 421 or CS 423.

Computer and VLSI Systems
ECE 416, ECE 424 or CS 457.

Control and Power
ECE 498R, ECE 460, ECE 461 or ECE 466.

Signal and Image Processing
ECE 416, ECE 480, ECE 481 or ECE 485.

Other courses, such as special topics courses, might fall in an emphasis area provided that this is approved by the course and curriculum committee. Furthermore, qualified students might be able to take graduate level courses, see adviser. There are some other courses available when there is sufficient demand for these courses, such as ECE482.

FOUR YEAR PROGRAM SAMPLE

The following sample four-year program, designed for incoming freshmen, illustrates the careful planning necessary to complete the BS in ECE degree. All students are urged to construct such a four-year plan, in consultation with an ECE degree adviser, as early as possible. While subsequent changes are likely, maintaining a four-year plan provides a coherent path toward the degree. The markings (1) through (7) refer to notes and are explained at the bottom of the table.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>ME 211 Essential Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 311 General Chemistry I(1)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 311L General Chemistry I, Lab(a)</td>
<td>1</td>
</tr>
<tr>
<td>Constitution Requirement(b)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 15

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 311 Physics for Science and Engr. I</td>
<td>5</td>
</tr>
<tr>
<td>COMS 110 Fundamentals of Effective Speaking</td>
<td>3</td>
</tr>
<tr>
<td>CE 411 Engineering Enterprise</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201 Economics I(c)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 18

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 250 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 311 Physics for Science &amp; Engr. II</td>
<td>5</td>
</tr>
<tr>
<td>ECE 311 Engineering Computation</td>
<td>4</td>
</tr>
<tr>
<td>ECE 311 Logic Design</td>
<td>3</td>
</tr>
<tr>
<td>ECE 311 Logic Design Lab</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 16

<table>
<thead>
<tr>
<th>Fourth Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEPT 0</td>
<td>0</td>
</tr>
<tr>
<td>CS 291 Discrete Structures II</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 220 English II(d)</td>
<td>3</td>
</tr>
<tr>
<td>ECE 226 Logic Design</td>
<td>3</td>
</tr>
<tr>
<td>ECE 311 Engineering Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 222 Foundations of Logic</td>
<td>3</td>
</tr>
</tbody>
</table>

(1) Meets MO constitution requirement.
(2) In most cases, students may not repeat courses.
(3) In most cases, students may not repeat courses.
(4) Prerequisite: Sophomore standing.
(5) Prerequisite: Sophomore standing.
(6) Prerequisite: Sophomore standing.
(7) Prerequisite: Sophomore standing.
FAST TRACK ELECTRICAL AND COMPUTER ENGINEERING/ELECTRICAL ENGINEERING PROGRAM

This program offers students an opportunity to meet the full requirements of the existing programs of BS in ECE and MS in EE in a shorter time period than the separate degree programs by completing a B.S. degree in Electrical and Computing Engineering within four years and then completing an M.S. degree in Electrical Engineering in their fifth year. In addition, and starting in Fall semester 2010, qualifying students will compete for one of ten generous financial incentives during the fifth year. Until 2010, students will still be able to graduate with two degrees in five years, even though financial incentives are not yet available. Please contact our department for additional information or clarification by phone (816) 235-1193 or by e-mail mailto:csee@umkc.edu

Admission Requirements for Fast Track

Students must meet the following entrance requirements:

1. High School GPA of 3.50 GPA (out of 4.00).
2. ACT Math of 28 or higher.
3. No single grade below C (2.00) in any coursework in STEM (Science, Technical, Engineering or Mathematics) fields from another college.
4. Cumulative GPA of 3.00 in any previous college credit.
5. Must start at UMKC/CSEE within one year of High School graduation.

Students are expected to follow the recommended curriculum (although deviations are possible) and must maintain:

1. UMKC cumulative GPA of 3.50 or higher, and
2. A minimal course grade of 2.00 or higher for every course attempted in the CSEE department.

Students are admitted into the graduate program in the spring semester of their fourth year. Upon successful completion of the first four years, the students will compete (together with the students in the fast track program for the CS degree in this department) for one of ten financial incentives, in the form of a fee reimbursement, a graduate assistantship or graduate teaching assistantship. Assistantships include a fee waiver for three residential credit hours. The incentive is renewable for the second semester of the fifth year only if they complete at least nine credit hours during their first semester with at least a 3.50 GPA. (Should a student be offered a graduate research assistantship (GRA) with a faculty member of this department in either of the two semesters of their fifth year, then the Department withdraws the financial offer for that semester.)

Program Description

Students will begin with the existing undergraduate degree programs in the school. They will take the same classes as other undergraduates, carrying 15-18 credit hours per semester. If they continue to meet the requirements, they will be invited to take graduate level classes before they graduate with a BS degree. After graduating with a BS degree, they will continue with the graduate program and compete for one of ten financial incentives the Dean has made available for the Department, starting Fall Semester 2010. Until 2010, students will still be able to graduate with two degrees in five years, even though financial incentives are not yet available.

Five Year Program Sample

Students should follow the sample program as listed for the BS in ECE degree and should apply for the graduate degree prior to enrolling for the Spring semester of their fourth year, so that they will take six hours of elective courses as a graduate student. During their fifth year, they could enroll in 12 credit hours each semester or make use of the Summer semester between their fourth and fifth year to take a course or special project, if offered.

Requirements for Graduation

Credit Hour Requirements:

- 120 Undergraduate Credit Hours
- 30 Graduate Credit Hours, and
- 150 Total Credit Hours.

Academic Requirements:

The curricular requirements for both degrees are identical to the requirements for the two degrees when considered separately, with a few additions and exceptions.
1. Students enrolled in the plan must maintain a 3.50 cumulative GPA for all UMKC coursework.
2. Students must receive a minimum grade of C (2.0) for every course attempted in the CSEE Department.
3. Students should follow the recommended sample program in order to graduate within five years, but variations are possible.
4. The bachelor’s degree in Electrical and Computer Engineering will be awarded after 126 credit hours have been earned. (120 as an undergraduate and 6 as a graduate student.) There are a number of courses available for this purpose, e.g. ECE 412, ECE 416, ECE 424, ECE 458R, ECE 460, ECE 461, ECE 466, ECE 46, ECE 474, and ECE 476.
5. Students must be admitted to the Graduate School in the spring semester of their fourth year.

For additional details, please contact our Department by phone (816) 235-1193 or by e-mail sce@umkc.edu

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

The Bachelor of Science in Electrical Engineering (BS-EE) is accredited by the Engineering Accreditation Commission of ABET
111 Market Place, Suite 1050
Baltimore, MD 21202-4012
(410) 347-7700
http://www.abet.org

and has been so accredited since 1978. The degree is being phased out and students are no longer accepted into this degree program. Students are strongly encouraged to consider enrolling in our degree program leading to the Bachelor of Science in Electrical and Computer Engineering (BS-ECE). Please call (816) 235-1193, or e-mail sce@umkc.edu.

Dentistry, School of

SCHOOL OF DENTISTRY

Dental School
650 E. 25th Street
(816) 235-2100
Fax: (816) 235-2157
(816) 235-2090 (Admissions)
(800) 776-8522 (Toll-free admissions)
(816) 235-2050 (Division of Dental Hygiene)
dentistry@umkc.edu
http://www.dentistry.umkc.edu/

Mailing Address
University of Missouri-Kansas City
School of Dentistry
650 E. 25th St.
Kansas City, MO 64108-2784

Dean:
Michael J. Reed
Associate Dean for Academic Affairs:
Pamela R. Overman
Assistant Dean for Business Affairs:
Edgar J. Ellyson
Assistant Dean for Clinical Programs, Information Technology, Patient and Facilities Management:
Harvey C. Eplee
Assistant Dean for Student Programs:
John W. Killip

• School of Dentistry Division of Dental Hygiene
  • History
  • Job Opportunities
  • Licensure Examinations
  • Professional Associations
  • Scholarships and Awards
    ◦ Bachelor of Science in Dental Hygiene
      ◦ Student Learning Outcomes
      ◦ General Education Requirements
      ◦ Curriculum
      ◦ Related Information
      ◦ Degree Completion Program
    • Admission/Degree Completion Program
    • Curriculum
    • Academic Standards
  • Dental Hygiene (DENHY) Courses

LICENSURE EXAMINATIONS

To practice dental hygiene legally, the student must take and successfully pass a written examination, the National Dental Hygiene Board Examination. This examination is administered to all dental hygiene students in the country approximately six weeks prior to their graduation. The student also must successfully complete a clinical examination and an examination on the dental laws of the desired state of licensure. After written and clinical examinations have been completed, the graduate may apply for licensure in any state. Additional information regarding these examinations and the licensure process is given during the dental hygiene program.

PROFESSIONAL ASSOCIATIONS

The School of Dentistry encourages students to participate in professional association activities. Dental hygiene students are encouraged to join and participate actively in the Student American Dental Hygienists’ Association, the UMHC 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

During the last semester of the program, dental hygiene students who have distinguished themselves are eligible to be selected from the graduating class to become members of Sigma Phi Alpha, a national dental hygiene honor society. Students who receive this honor exhibit outstanding character and service during the professional program.

The Greater Kansas City Dental Hygienists’ Association sponsors a Community Service Award; the Missouri Dental Hygienists’ Association sponsors the Outstanding Dental Hygiene Graduate Award; and the UMHC Dental Hygienists’ Alumni Association sponsors the Outstanding Clinician Award. These awards are presented annually to graduating seniors.

The Dr. James E. Herbertson Memorial Scholarship is presented annually to a student who has excelled in the dental hygiene program.
In addition to the University and federal financial aid opportunities, the Division of Dental Hygiene has numerous scholarship sources available to dental hygiene students. Students must meet financial and academic qualifications. Contact the division for more information.

School of Dentistry Division of Dental Hygiene

**SCHOOL OF DENTISTRY DIVISION OF DENTAL HYGIENE**

**Dental School**, Room 415  
(816) 235-2050

Interim Director, Division of Dental Hygiene: 
Director, Baccalaureate Degree Completion Program:  
Kimberly S. Bray, R.D.H., M.S.

History

**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 U.S. Department of Education.

The student at UMKC can earn a bachelor of science degree in dental hygiene in two ways. The first alternative offers an opportunity for the student who has completed two academic years of liberal arts pre-requisites at any accredited community/junior college, college or university to matriculate into the entry level clinical dental hygiene program. The second alternative provides for the licensed dental hygienist with a certificate or associate degree an opportunity to earn a baccalaureate degree (degree completion).

Job Opportunities

**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.

Bachelor of Science in Dental Hygiene

**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></th>
<th>Communicating (9 hours)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110</td>
<td>English I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 225</td>
<td>English II</td>
<td>3</td>
</tr>
<tr>
<td>COMS 110</td>
<td>Effective Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics (3 hours)

| MATH 160     | College Algebra         | 3     |

Higher-order Thinking, Managing Information and Valuing (6 hours)

<table>
<thead>
<tr>
<th>(Choose at least two different fields from the following):</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 210 or 222</td>
</tr>
<tr>
<td>HIST 201, 206, 208 or 208</td>
</tr>
<tr>
<td>ANTH 201 or 301</td>
</tr>
<tr>
<td>CS 100 or above</td>
</tr>
<tr>
<td>MATH 180 or above</td>
</tr>
</tbody>
</table>

Humanities and Fine Arts (6 hours)

<table>
<thead>
<tr>
<th>One 3 credit hour course chosen from English, Communication Studies, Foreign Language or</th>
</tr>
</thead>
</table>
BACHELOR OF SCIENCE IN DENTAL HYGIENE

ACADEMIC STANDARDS

Professional associations fee                       $45
National, regional and state licensure fees        $1,200
Uniforms, lab coats, etc. (entire program)         $600
Textbooks (entire program)                         $1,420

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.

<table>
<thead>
<tr>
<th>Expense</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instrument rental and supplies (entire program)</td>
<td>$3,500</td>
</tr>
<tr>
<td>Textbooks (entire program)</td>
<td>$1,420</td>
</tr>
<tr>
<td>Uniforms, lab coats, etc. (entire program)</td>
<td>$600</td>
</tr>
<tr>
<td>National, regional and state licensure fees</td>
<td>$1,200</td>
</tr>
<tr>
<td>Professional association fee</td>
<td>$45</td>
</tr>
</tbody>
</table>

Note: Fees are subject to change without notice. An advance deposit of $100 is required on admission to the program. This payment shall be credited to the student's educational fee upon enrollment. The fee is non-refundable except by special order of the dean of the School of Dentistry and as approved by the director of admissions.

Financial Assistance

In addition to the University’s financial aid services, the UMKC Dental Hygienists’ Alumni Association (UMKC DHAA) has several scholarship funds and grants for dental hygiene students who are in need of financial assistance and who qualify academically. For more information, contact the division director.

ACADEMIC STANDARDS

Academic Standards

Professional education in the health sciences manifests characteristics that are distinct from other advanced educational programs. Academic standards of the School of Dentistry are established to ensure that the public, whose health will be entrusted to graduates of the school’s programs, will receive care of professionally acceptable quality and that the care will be provided in an ethical and professional manner. The School’s Academic Requirements are described in the following two sets of standards, one for scholarly achievement and one for professional conduct, located in the Graduate Catalog.

Attendance

Regular attendance at all classes and clinical sessions is required during the professional program. The student is responsible for familiarization with all classroom and clinical requirements and assignments.

Scholastic Honesty

The Division of Dental Hygiene assumes all students are enrolled to learn. Any cheating is contradictory to the purposes of students and this institution. Any dishonesty detected in a course (including during examinations or in submitting plagiarized material) may result in an F grade in the course, and may be cause for dismissal or suspension from the Division of Dental Hygiene.

Repeated Courses

A dental hygiene student who wishes to repeat a course must submit a course repeat form to the UMKC Registration Office no later than the end of the fourth week of the term if that repeat is to be included in GPA calculations. Students who are repeating a course must have prior approval of the director of the Division of Dental Hygiene.

Advanced Placement

The general examination offered by the College Level Examination Program (CLEP) will not be accepted for degree credit. However, credit received through specific or subject examinations will apply toward a bachelor of science degree in dental hygiene. Although hours of credit may be received in natural sciences, it is preferred that an applicant to the dental hygiene program complete the specific science prerequisites.

For more information regarding admission to either the basic preparation or degree completion program in dental hygiene, contact the Division of Dental Hygiene.

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 all of the following:

1. Graduation from an accredited high school or its equivalent.
2. Satisfactory completion of approximately two academic years or 60 semester hours of college. (The 60 semester hours must satisfy the general education requirements, which are specified later in this section. All general education requirements must be completed prior to entrance into the dental hygiene program.)
3. Application to UMKC.
4. Supplemental application for admission to the Division of Dental Hygiene.
5. High school transcripts.
6. College transcripts of all college coursework.
7. A cumulative college GPA of at least 2.5.
8. A college science GPA 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.

**Student Learning Outcomes**

**Education, School of**

**SCHOOL OF EDUCATION**

*Education Building, Room 347*

*615 E. 52nd Street*

*(816) 235-2260 Dean's Office*

*(816) 235-2234 Student Services*

*Fax: (816) 235-5270*

*education@umkc.edu*

*http://education.umkc.edu/

**Mailing Address**

*University of Missouri-Kansas City*

*School of Education*

*5100 Rockhill Road*

*Kansas City, MO 64110-2499*

*Dean: Linda L. Edwards [1]*

*Associate Dean: Steve LaNasa [2]*

*Assistant Deans: Ginny Miller [3]*

*Division of Counseling and Educational Psychology Chair: Nancy Murdock [4]*

*Division of Curriculum and Instructional Leadership Chair: Susan Adler [5]*

*Division of Urban Leadership and Policy Studies in Education Chair: Dianne Smith [6]*

*Interim Director of Teacher Education: Steve LaNasa [7]*

- **History and Overview**
- **Mission**
- **Curricular Objectives**
- **Accreditation**
- **Advising and Student Services**
- **Scholarships**
- **Student Organizations**
- **Special Services**
- **Division of Counseling and Educational Psychology**
  - Areas of Study and Degrees
- **Division of Curriculum and Instructional Leadership**
  - Areas of Study and Degrees
- **Division of Urban Leadership and Policy Studies in Education**
  - Areas of Study and Degrees
- **Teacher Education Programs**
  - Advising
  - Admission
  - Retention
  - Recommendations for Teacher Certification
  - Graduation Requirements
- **Undergraduate Programs**
  - Student Learning Outcomes
  - Bachelor of Arts: Early Childhood Education
  - Bachelor of Arts: Elementary Education
  - Bachelor of Arts in Middle School Education
  - Bachelor of Arts in Secondary Education
  - Institute for Urban Education
- **Centers and Projects**
- **Courses**
  - Counseling Psychology and Counselor Education (CPCE)
  - Curriculum and Instruction (EDCI)
  - Education (EDUC)
  - Physical Education (PE)
  - Special Education (EDSP)
  - Teacher Education (TE)

**COUNSELING PSYCHOLOGY AND COUNSELOR EDUCATION (CPCE) COURSES**

- 420 Counseling Techniques For Educators & Other Human Services Personnel (3)

**CURRICULUM AND INSTRUCTION (EDCI) COURSES**

- 497 Individual Study (1-6)

**EDUCATION (EDUC) COURSES**

- 149 Economics In The K-8 Classroom (3)
- 160 Career And Life Planning (2)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>180</td>
<td>Introduction To Education</td>
<td>2</td>
</tr>
<tr>
<td>189</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>189CD</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>189EE</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>189FE</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>189MM</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>189UE</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>189UF</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>189US</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>289</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>289FE</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>289FL</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>289IA</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>289IU</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>289MT</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>289TE</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>289UE</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>289US</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>289WJ</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>289XG</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>289YY</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>402R</td>
<td>Algebra For Teachers</td>
<td>3</td>
</tr>
<tr>
<td>428</td>
<td>Cultural Diversity And American Education</td>
<td>3</td>
</tr>
<tr>
<td>434</td>
<td>Classroom Diagnosis And Correction Of Reading Problems</td>
<td>3</td>
</tr>
<tr>
<td>439</td>
<td>Content Reading And Language Development</td>
<td>3</td>
</tr>
<tr>
<td>440</td>
<td>Literature For Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>489A</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>489BP</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>489Q</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>489QT</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>489TA</td>
<td>Special Topics (1-6)</td>
<td></td>
</tr>
<tr>
<td>497</td>
<td>Individual Study</td>
<td>1-6</td>
</tr>
</tbody>
</table>

**Physical Education (PE) Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>106</td>
<td>Badminton</td>
<td>1</td>
</tr>
<tr>
<td>125</td>
<td>Golf</td>
<td>1</td>
</tr>
<tr>
<td>145</td>
<td>Social Dance</td>
<td>1</td>
</tr>
<tr>
<td>149</td>
<td>Basketball And Team Handball</td>
<td>1</td>
</tr>
<tr>
<td>152</td>
<td>Volleyball</td>
<td>1</td>
</tr>
<tr>
<td>157</td>
<td>Weight Training</td>
<td>1</td>
</tr>
<tr>
<td>158</td>
<td>Advanced Weight Training</td>
<td>1</td>
</tr>
<tr>
<td>159</td>
<td>Jogging</td>
<td>1</td>
</tr>
<tr>
<td>174</td>
<td>Cross Training</td>
<td>1</td>
</tr>
<tr>
<td>175</td>
<td>Lifetime Fitness</td>
<td>1</td>
</tr>
<tr>
<td>175L</td>
<td>Lifetime Fitness Lab</td>
<td>1</td>
</tr>
<tr>
<td>180</td>
<td>Beginning Swimming</td>
<td>1</td>
</tr>
<tr>
<td>181</td>
<td>Fitness Swimming</td>
<td>1</td>
</tr>
<tr>
<td>189</td>
<td>Special Topics: Activity</td>
<td>1</td>
</tr>
<tr>
<td>189BE</td>
<td>Special Topics: Activity</td>
<td>1</td>
</tr>
<tr>
<td>189KT</td>
<td>Special Topics: Activity</td>
<td>1</td>
</tr>
<tr>
<td>189RT</td>
<td>Special Topics: Activity</td>
<td>1</td>
</tr>
<tr>
<td>189SS</td>
<td>Special Topics: Activity</td>
<td>1</td>
</tr>
<tr>
<td>189WJ</td>
<td>Special Topics: Activity</td>
<td>1</td>
</tr>
<tr>
<td>189WM</td>
<td>Special Topics: Activity</td>
<td>1</td>
</tr>
<tr>
<td>189XX</td>
<td>Special Topics: Activity</td>
<td>1</td>
</tr>
<tr>
<td>189XY</td>
<td>Special Topics: Activity</td>
<td>1</td>
</tr>
<tr>
<td>189YY</td>
<td>Special Topics: Activity</td>
<td>1</td>
</tr>
<tr>
<td>206</td>
<td>First Aid And Safety</td>
<td>1</td>
</tr>
<tr>
<td>207</td>
<td>Outdoor And Leisure Pursuits</td>
<td>2</td>
</tr>
<tr>
<td>212</td>
<td>Self Defense</td>
<td>1</td>
</tr>
<tr>
<td>312</td>
<td>Physical Education For The Elementary Schools</td>
<td>1</td>
</tr>
<tr>
<td>313L</td>
<td>Laboratory Experiences In Physical Educ For The Elementary School</td>
<td>1</td>
</tr>
<tr>
<td>323</td>
<td>Nutrition For Fitness And Sport</td>
<td>3</td>
</tr>
<tr>
<td>361W</td>
<td>Sociology Of Sport And Exercise</td>
<td>3</td>
</tr>
<tr>
<td>389</td>
<td>Special Topics In Health And Physical Education</td>
<td>3-6</td>
</tr>
<tr>
<td>401</td>
<td>Health Teaching In The Schools</td>
<td>1</td>
</tr>
<tr>
<td>401L</td>
<td>Health Teaching In The Schools Lab</td>
<td>1</td>
</tr>
<tr>
<td>499</td>
<td>Internship</td>
<td>3-6</td>
</tr>
</tbody>
</table>

**Special Education (EDSP) Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>407</td>
<td>Educating Exceptional Children And Youth</td>
<td>3</td>
</tr>
</tbody>
</table>

**Teacher Education (TE) Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>130</td>
<td>Number Systems And Related Topics</td>
<td>3</td>
</tr>
<tr>
<td>140</td>
<td>Geometry For Elementary Teachers</td>
<td>3</td>
</tr>
<tr>
<td>201</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>350</td>
<td>Multi-Media Production For The Classroom</td>
<td>1</td>
</tr>
<tr>
<td>385</td>
<td>Teaching and Learning with Technology</td>
<td>3</td>
</tr>
<tr>
<td>400</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>402</td>
<td>Creative Activities</td>
<td>3</td>
</tr>
<tr>
<td>403</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>404</td>
<td>Education Of The Exceptional Child And Youth</td>
<td>3</td>
</tr>
<tr>
<td>405</td>
<td>Field Experience</td>
<td>1</td>
</tr>
<tr>
<td>406</td>
<td>Field Experience - Early Childhood Elementary And Middle</td>
<td>1</td>
</tr>
<tr>
<td>407</td>
<td>Field Experience - Elementary And Middle</td>
<td>3</td>
</tr>
<tr>
<td>408</td>
<td>Introductory Foundations</td>
<td>3</td>
</tr>
<tr>
<td>409</td>
<td>General Methods Elementary And Middle</td>
<td>3</td>
</tr>
<tr>
<td>410</td>
<td>General Methods Elementary And Middle 2</td>
<td>2</td>
</tr>
<tr>
<td>412</td>
<td>Language Arts In The Elementary And Middle School</td>
<td>3</td>
</tr>
<tr>
<td>413</td>
<td>Mathematics in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>414</td>
<td>General Methods Elementary And Middle - 3</td>
<td>2</td>
</tr>
<tr>
<td>415</td>
<td>Reading 1</td>
<td>4</td>
</tr>
<tr>
<td>416</td>
<td>Reading 2</td>
<td>4</td>
</tr>
<tr>
<td>417</td>
<td>Science Methods In The Elementary And Middle School</td>
<td>3</td>
</tr>
<tr>
<td>418</td>
<td>Social Studies Methods In The Elementary And Middle Schools</td>
<td>3</td>
</tr>
<tr>
<td>419</td>
<td>Student Teaching In Elementary School</td>
<td>3-12</td>
</tr>
<tr>
<td>420</td>
<td>Adolescent Development</td>
<td>3</td>
</tr>
<tr>
<td>422</td>
<td>Field Experience - Secondary 2</td>
<td>1</td>
</tr>
<tr>
<td>423</td>
<td>Practicum II Middle and Secondary</td>
<td>0</td>
</tr>
<tr>
<td>424</td>
<td>General Methods - Secondary 1</td>
<td>2</td>
</tr>
</tbody>
</table>
Advising and Student Services

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 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.

History and Overview

HISTORY AND OVERVIEW

The School of Education, organized officially as a separate academic division in 1954, was the result of the University of Kansas City’s involvement in professional education since 1940. At that early date the University was offering an M.A. in education, heavily liberal-arts laden, with most classes conducted in the summer and evenings. An undergraduate major in elementary education was established in 1952, and the first University of Kansas City doctoral program, the Ph.D. in education, was inaugurated with the organizing of the school in 1954. Since 1954, the school has grown to include three disciplinary divisions with 19 programs, offering bachelor of arts, master of arts, educational specialist, education doctorate and doctor of philosophy degree programs. Several degree and certification programs are offered in cooperation with the School of Biological Sciences, the Conservatory of Music and the College of Arts and Sciences.

Mission

MISSION

The mission of the School of Education is to empower professionals to become reflective practitioners committed to a more just and democratic society. This mission is centered on five key values which embody the knowledge, skills and dispositions expected of our candidates across the School of Education. The goals defined by individual programs are more specific subsets of these broader goals:

1. Academic excellence.
2. Inquiry leading to reflective decision-making and problem-solving.
3. Skilled and knowledgeable professionals working collaboratively.
5. Creating caring and safe environments.

Curricula Objectives

CURRICULA OBJECTIVES

The UMKC School of Education has been committed to professional education in the Kansas City metropolitan area for over 50 years. Throughout the School’s history, faculty have an established record of involvement in educational reform - exemplified through innovative teaching methods, action-based research, and community-focused programs preparing teachers, administrators, and mental health professionals for the challenges in urban communities today and for the future.

The primary objectives of the School of Education, which stem from our conceptual framework, mission, and values, are:

- To provide sound theoretical foundations and practical skills at the undergraduate and graduate levels required for competent performance by teachers, administrators and special-services personnel in schools, colleges and universities in a culturally pluralistic society.
- To provide graduate education and research skills which are supportive of and lead to advanced levels of scholarly achievement.
- To provide a diversity of specialized education and training programs for persons engaged in educational roles in non-school settings such as governmental agencies, social service agencies, mental and physical health care institutions, business and industrial organizations and private practice.
- To provide leadership, consultation and other support services for quality improvement in planning and conducting educational programs in schools, higher education institutions, and community agencies and organizations.
- To provide professional development opportunities for educators at all levels through specially designed programs in research, continuing education instruction, in-service programs and workshops.
- To impact the student learning in classrooms and communities throughout Missouri and the Kansas City metropolitan region in positive and meaningful ways.
- To make original contributions to the broad field of professional education through basic and applied research by both faculty and students with specific emphasis on issues of urban education.

Accreditation

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.
Scholarships

The School of Education has the following named scholarships to offer students enrolled in an education degree program. All scholarships are formally announced in November, with selection completed in February for awarding the following academic year. Application materials are available in November from the Education Student Services Office and are due by February 1 each year. All scholarship recipients are selected by the School of Education Scholarship Committee.

Dr. Phyllis L. Bernstein Scholarship
Doctoral students currently enrolled in the School of Education's Counseling Psychology Program may apply. Criteria for selection includes academic achievement, financial need and skills in interpersonal relations as demonstrated by leadership in campus or community involvement.

Wheaton Bloch Scholarship
Established in 1990 in honor of Professor Emeritus Wheaton Bloch, this scholarship supports a graduate student who has excellent academic, research and leadership skills. Preference given to students in Higher Education Administration.

Pallas K. Cockefair Scholarship
This scholarship was established to assist full-time junior or senior students in the teacher education program.

George and Grace Fox Fellowship
This research 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.

George and Grace Fox Scholarship
This scholarship was established to assist students interested in preparing for a career in the correction and prevention of reading disabilities in a college, university or public school setting.

Patricia J. Gier Memorial Scholarship
In recognition of Patricia J. Gier, this scholarship is available to an undergraduate or graduate student pursuing a degree in teacher education. Preference may be given to a non-traditional female student.

Haldex Brake Products Corporation Scholarship
This scholarship was established to assist students in the Institute for Urban Education (IUE). Preference is given to graduates from high schools from one of five Kansas City metropolitan counties (In Missouri: Cass County, Jackson County or Platte County. In Kansas: Johnson County or Wyandotte County.), and demonstrate financial need.

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.

Kansas City Elementary Teachers' Club Scholarship
This scholarship, endowed by the Kansas City Elementary Teachers Club, is for elementary or secondary education majors who demonstrate characteristics of a successful teacher and are entering their final year of the teacher education program.

Ralph Parish Memorial Scholarship
Through the generosity of the friends and family of Ralph Parish, a scholarship shall be awarded to a deserving undergraduate or graduate student in the School of Education. Preference is given to minority students.

Marian Alice Simmons Scholarship
In memory of Marian Alice Simmons, long time School of Education reading instructor and mentor. Preference is given to full time student(s) seeking a teaching degree.

Ruth G. & Phillip W. Snyder Scholarship
A scholarship is awarded annually to an elementary education major or someone involved in elementary schools. Students must be involved in community and/or campus activities.

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 in higher educational administration. Preference is given to a student planning to teach or work within a community college 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 and Educational Psychology name the recipient of this award. There is no application.

Mark Avery Stitt Memorial Scholarship in Teacher Education
This scholarship will be awarded to a student that has been admitted to the Teacher Education program. Preference will be given to history or social studies education majors. Recipient must demonstrate financial need.

Thomas & Teresa Sullivan Scholarship
One scholarship is available to fund a middle school or secondary education student. Preference shall be given to first-generation college students and/or students majoring in mathematics education.

College Club Esther Teague Scholarship
This scholarship was established by the College Club in honor of long time kindergarten teacher, Esther Teague. Scholarships are awarded to deserving education majors entering their final year of the teacher education program.

Scholarships

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

Academic advisers are available to meet with undergraduate education majors and those seeking teacher certification. Academic advisers can be reached by contacting Education Student Services at (816) 235-2234.

Additionally, each student is assigned a faculty adviser. Faculty advisers are available for assistance in program and career planning. Graduate students are encouraged to contact their department within the first semester to connect with their faculty adviser.
DIVISION OF COUNSELING AND EDUCATIONAL PSYCHOLOGY

SPECIAL SERVICES

Student Organizations

STUDENT ORGANIZATIONS

The School of Education Student Government strives to expand the students' academic concerns and abilities, promote students' involvement in the School of Education and the University, act on all matters concerning students' welfare, aid faculty and students in cooperative work and promote a professional attitude and feeling of responsibility.

The American Psychological Association -- Student Affiliate Group encourages professional development within the field of counseling psychology. It also serves as a meeting time for the members to discuss issues and concerns of the counseling psychology doctoral program. It encourages students to organize educational, social and fund raising events, and to act as a liaison with the counseling psychology faculty and the UMKC community.

The Higher Education Student Association (HESA) is a student-run organization founded to further the understanding of the purpose and practices of higher education. HESA's purpose is to serve the specific and current needs of students enrolled in or interested in the Higher Education Administration program at UMKC. The goals of the organization are to:

- Create a community among higher education administration students, faculty, and alumni
- Provide a forum for the exchange of ideas on current issues in higher education
- Offer professional experiences in conference participation, planning and organization
- Network with other Higher Education Student associations
- Assist in the professional advancement of members

The Kansas City Council of the International Reading Association works closely with the Division of Curriculum and Instructional Leadership and language and literacy faculty to provide programs that acquaint teachers and administrators with issues, special methods and materials in the field of reading education.

Phi Lambda Theta recognizes persons of superior scholastic achievement and high potential for professional leadership; to stimulate independently thinking educators who can ask critical questions to improve educational decision-making.

The purpose of the Student Personnel Association is to create a sense of community among students interested in the study of higher education by providing opportunities to interact with each other and discuss common issues and concerns, encouraging social unity and promoting the educational development of members.

Pi Delta Kappa is an honorary education society with the purpose of improving schooling through research and shared information. The national organization publishes high-quality materials in the field of education, and the local chapter sponsors workshops, informational meetings and service projects.

The Student Missouri State Teachers Association promotes professional ideals by developing communication, interaction and cooperation among existing chapters, coordinates their major activities, projects and programs, aids in the establishment of new chapters, and establishing and meeting Student-MSTA membership goals. Activities provide personal growth, leadership training and experiences. The activities also provide opportunities by which students may observe and share the work of the teachers in every aspect. This is to promote and cultivate high quality teaching in the education profession.

Special Services

SPECIAL SERVICES

Reading Clinic

Diagnostic and remedial services in reading are available for elementary and high school students who are having difficulty in reading. Contact the Division of Curriculum and Instructional Leadership at (816) 235-2245 for additional information.

Public School Centers

A number of public schools in the Kansas City metropolitan area cooperate with the School of Education by making available their facilities and staffs for observations, student teaching and demonstrations. These schools are designated centers because of the close relationships that have been developed between UMKC and public schools. The use of the centers ensures that observations and student teaching are closely interwoven with the coursework throughout the program to provide close union of theory and practice. During student teaching, students are under the guidance of cooperating teachers and members of the University's education staff. Weekly seminars are a required part of the program.

Placement

There is a significant local and national demand for teachers. More than 7,000 teaching positions exist in the greater Kansas City area. In addition to those local opportunities, School of Education graduates hold teaching positions across the nation.

Students or graduates seeking a teaching or administrative position are urged to register and keep their records current in the Career Services Office, 4825 Troost, phone (816) 235-1636 or check their Web site: [http://www.career.umkc.edu](http://www.career.umkc.edu).

Technology Learning Laboratory

The School of Education Technology Learning Laboratory is available for all School of Education students, faculty and staff. Individualized instruction is available by appointment, call (816) 235-2250. Computers with the PC and Mac platforms are available.

Office of Continuing Education

Through Continuing Education, hundreds of courses are offered to teachers and other community members throughout the Greater Kansas City area and beyond. Credit and non-credit courses are offered throughout the year at various locations and at various time. Continuing Education has numerous online offerings to fit any schedule. For course topics and additional information, visit our Web site at [http://education.umkc.edu/CE](http://education.umkc.edu/CE) or call (816) 235-1188.

Division of Counseling and Educational Psychology

DIVISION OF COUNSELING AND EDUCATIONAL PSYCHOLOGY
Division of Curriculum and Instructional Leadership

**DIVISION OF CURRICULUM AND INSTRUCTIONAL LEADERSHIP**

**AREAS OF STUDY AND DEGREES**

- B.A. Early Childhood Education
- B.A. Elementary Education
- B.A. Middle School Education (English, Mathematics, Science, Social Studies)
- B.A. Secondary Education; Certification areas: Art, English, Foreign Language (French, German, Spanish), Mathematics, Natural Sciences (Biology, Chemistry, Earth Science, Physics) and Social Sciences
- M.A. Curriculum and Instruction; Emphasis Areas: Early Childhood, Elementary, General, Learning Technologies, Multicultural Education, Subject Matter Specialty and Teaching English to Speakers of Other Languages
- M.A. Reading Education (Elementary, Secondary, Special)
- M.A. Special Education (Mild/Moderate Cross-Categorical Disabilities)
- Ed.S. Curriculum and Instruction,
- Ed.S. Reading Education
- Ph.D. Interdisciplinary (Education and other disciplines) (See School of Graduate Studies [http://sgs.umkc.edu/](http://sgs.umkc.edu/))

Division of Urban Leadership and Policy Studies in Education

**DIVISION OF URBAN LEADERSHIP AND POLICY STUDIES IN EDUCATION**

**AREAS OF STUDY AND DEGREES**

- M.A. Educational Administration; Emphasis Areas: Administration (Elementary or Secondary), Higher Educational Administration
- Ed.D. Educational Administration; Emphasis Areas: Administration (Elementary or Secondary)
- Ph.D. Interdisciplinary (Urban Leadership and Policy Studies in Education with other disciplines) (See School of Graduate Studies [http://www.umkc.edu/sgs](http://www.umkc.edu/sgs))

Teacher Education Program

**TEACHER EDUCATION PROGRAM**

**Advising**

**ADVISING**

Students pursuing an education major receive academic advising through the School of Education Student Services Office, room 129. In addition, all students are assigned a faculty adviser who will be available for assistance in program and career planning.

Academic advisers help students select courses appropriate to their major, investigate possible alternatives in education and outline course schedules based on future offerings that will allow students to complete their program in a timely manner. Academic advisers also refer students to faculty members for specific guidance in selection of subject matter courses and to other University support units, such as Counseling Services and the Financial Aid and Scholarships Office as needs indicate.

An academic advising appointment is required of all Teacher Education (TE) students prior to registration each semester. Call (816) 235-2234 to set up an appointment.

Admission to the Teacher Education Program

**ADMISSION TO THE TEACHER EDUCATION PROGRAM**
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://dese.mo.gov/. 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.kde.org. Students should apply for certification early in their final semester to prevent delay in receiving the certificate. Institutional recommendations for certification are made only for students who have completed a UMKC School of Education degree or the equivalent in the appropriate certification area. To establish a basis for the institutional recommendation, all students who do not earn a degree at UMKC, who are seeking an additional endorsement to teach, administer, or counsel, must take at least 12 hours of coursework planned with an adviser in the School of Education.

Most states, including Missouri and Kansas, have additional testing requirements for certification. It is the student’s responsibility to obtain this information and satisfy those testing requirements prior to applying for certification. In addition, the states of Missouri and Kansas require that all candidates for certification submit fingerprints to be used for state and national background checks before any certificate is issued.

On completion of the appropriate degree, recommendation for Missouri certification can be achieved in the following areas:

- Early Childhood Teacher (birth-3rd grade), B.A. early childhood education
- Elementary Teacher (1-6), B.A. elementary education
- Middle School Teacher (5-9), B.A. middle school education/subject area specialty (language arts, mathematics, science and social studies)
- Secondary Teacher (9-12), B.A. secondary education/subject matter specialty: English, mathematics, science (requires an emphasis in biology, chemistry, earth science, or physics), unified science (requires an emphasis in biology, chemistry, earth science, or physics), and social studies.
- Teacher (K-12), B.M.E. (Bachelor of Music Education)/music education/choral/instrumental; B.A. secondary education: foreign language (French, German, Spanish), Art
- School Counselor (1-8), M.A. counseling and guidance/elementary
- School Counselor (7-12), M.A. counseling and guidance/secondary
- Teaching English to Speakers of Other Languages (K-12), M.A. curriculum and instruction/TEESOL
- 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 Cross-Categorical disabilities(K-12), M.A. special education
- Supervendorcy, Ed.S. educational administration

* Kansas and other state certification subjects and levels are similar. Contact the School of Education Student Services Office for information.

Alternative Certification for Middle School and Secondary Mathematics Education
The University of Missouri-Kansas City offers an alternative program to meet the needs of Missouri school districts for middle and secondary school mathematics teachers. A temporary authorization certificate is issued by the state at the request of a school district, allowing the district to hire a candidate who holds a degree in mathematics or a closely related field to teach middle school or high school mathematics. The alternative certification program provides a nontraditional route for teacher candidates who already have bachelor's degrees in mathematics. Teacher candidates will be supported throughout their participation in the program with weekly cohort seminars, instructional assistance, and mentoring. The program is intended to serve and meet the needs of mathematics teachers who have been hired in a Missouri school district under a Temporary Authorization Certificate. For more information on the eligibility requirements for admission to the alternative certification option in mathematics, see the Education section of the Graduate Catalog.

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 certification. The student then brings the application to the certification officer for the School of Education for completion of an academic contract.

Criminal Record Check

Missouri State law requires all persons working in the public schools have passed a criminal background check as done by the Missouri FBI and Missouri Highway Patrol. Students applying for teacher certification will have to request an FBI background check from DESE. Forms and instructions are available directly from DESE or in the Student Services Office.

State of Missouri Grade-Point Average Requirement

All persons certified to teach in public elementary, middle, and secondary schools in Missouri, except for non-academic vocational and 45- and 90-day substitute teachers, must have an overall 2.5 GPA or higher (on a 4.0 scale).

Missouri Certification Testing

Missouri has established a requirement that all prospective teachers take a competency examination prior to certification. All students must pass the Praxis II Specialty Area Test, appropriate to their field of study, prior to graduation for certification in Missouri. All test results must be 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 and Certification Requirements

**GRADUATION AND CERTIFICATION REQUIREMENTS**

All undergraduate students must abide by the School of Education Policies and Procedures and by the Undergraduate Admission Policies and Procedures in this catalog.

All students completing an undergraduate teacher education degree must meet the following conditions in order to graduate and be recommended for teacher certification:

- 2.75 cumulative GPA.
- "C" or higher in all Education courses.
- "C" or higher in all subject-area courses required for Middle School and Secondary degrees.
- Successful completion of the program portfolio.
- Passing score on the certification exam(s) required by the State of Missouri.
- All students completing a baccalaureate degree program in the School of Education must apply to graduate by the posted deadline during their final semester of enrollment. The deadline for making application to graduate is posted on each term's academic calendar and on each student's registration materials. See your academic adviser for questions about these requirements.

Undergraduate Programs

**UNDERGRADUATE PROGRAMS**

The School of Education offers the following undergraduate degree programs:

- B.A., Early Childhood Education
- B.A., Elementary Education
- B.A., Middle School Education
- B.A., Secondary Education

Students may contact the School of Education Student Services Office for specific program information.

Students may also elect to pursue a dual degree between Education and Arts and Sciences. Secondary education majors may earn a B.A. or B.S. degree in a major in the College of Arts and Sciences. Elementary and early childhood education majors may earn a bachelor of liberal arts degree in the College of Arts and Sciences. Contact the advising office of the College of Arts and Sciences for more details.

Student Learning Outcomes

**Bachelor of Arts: Early Childhood Education**

**Bachelor of Arts: Elementary Education**

**Bachelor of Arts: Middle School Education**

**Bachelor of Arts: Secondary Education**

**Institute for Urban Education (IUE)**

The Institute for Urban Education (IUE) is a four-year undergraduate program that leads to a degree in elementary or middle school education with a focus in the teaching of math, science, and literacy. The program is specifically targeted to develop teachers for urban schools. The mission of UMKC's Institute for Urban Education (IUE) is to partner with our community to prepare exemplary educators for urban settings. Exemplary educators are change agents who demonstrate cultural, pedagogical, subject matter, school, and interpersonal competencies.

IUE program goals are based on a set of key principles and express knowledge, skills and dispositions. These goals reflect the current knowledge base of teacher education as well as a commitment to the preparation of teachers who will be able to practice in schools as they are, and schools as they might be. The goals of the IUE are consistent with those of the School of Education Teacher Education section of the Graduate Catalog.
Preparation program.

Students receiving IUE scholarships will make a commitment to teach in an urban district following graduation in exchange for financial support. Questions regarding the IUE’s programs and offers should be directed to an IUE representative at (816) 235-2472.

Program Curriculum

The design of the IUE curriculum strives to prepare exemplary teachers who will positively affect student achievement. The curriculum of the IUE will prepare exemplary teachers for urban schools through an emphasis on content knowledge and culturally-responsive pedagogy, opportunities for students to gain cultural awareness and exploring cultural identities, field experiences aligned with coursework often taught in urban classrooms, and beginning teacher support. The following areas are cornerstone of the IUE:

- **Emphasis on Math, Science and Literacy content and pedagogy**. The IUE curriculum includes a strong content component aligned with knowledge of how individuals learn content. The content focus of the IUE is math, science, and literacy. Students in the IUE will take math and/or science courses that have a direct impact on student learning.
- **STARR Teachers**. Teachers in the IUE will work with educators at the district and school level, 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.
- **Focus on social justice and multicultural education**. The IUE curriculum emphasizes cultural awareness, culturally-relevant pedagogy and immersion in urban schools. Students in the IUE are involved in field experiences in urban schools and communities every semester. The aligned with these field experiences is a seminar course, allowing students to work closely with faculty exploring the political and social nature of teaching. Immersion in urban schools will help IUE students understand the culture of urban schools, the realities of urban life and learn how to teach in culturally relevant ways, connecting pedagogy to the lives of their students.
- **Summer cultural experiences**. In order to gain a broad and deep understanding of urban communities, students in the IUE are provided with many opportunities to work and socialize in that area. One such opportunity is the Summer Community Experience in which students will be fully immersed in the Kansas City community, gaining experience of other cultures and the community resources available to teachers and families. Designed with community leaders, the summer cultural experience is a six-week intensive program where students will work with local agencies to explore and serve urban communities. This experience occurs between the sophomore and junior years.
- **Innovative classes taught in urban school classrooms**. The IUE curriculum teaches students how to apply culturally relevant and responsive teaching practices through modeling, field experiences and courses taught in urban school classrooms. These experiences allow IUE students to witness how to make necessary curricular accommodations and modifications within their teaching behaviors to meet the needs of diverse students. Through courses taught in urban school classrooms, students see the immediate application of culturally relevant and responsive teaching and will learn how to make pedagogical modifications to address the cultures present in the classroom and make content meaningful to students.

Admission to the Institute for Urban Education

The program is scholarship-based and students are selected through a multi-step admission process. The priority deadline for IUE applications is March 1. The following items make a complete application to the IUE:

1. **UMKC Admissions Application**: Application available at: [http://www.umkc.edu/admissions/](http://www.umkc.edu/admissions/). A $35 application fee payable to UMKC is required of students not already admitted to UMKC.
2. **Be sure to check on the admissions application that you are applying to the Institute for Urban Education**.
3. **Personal Statement**: A typed personal statement of 750 words or less addressing your interest and commitment to urban education. You may also want to address why you have chosen the field of education and why you think you will be an effective teacher in an urban school.
4. **Two Reference Letters**: At least one reference should be from an educator or from someone who can address the applicant’s performance in working with youth (please do not use relatives).
6. **Personal Interview**: Each applicant will be contacted for a personal interview. Interviews will be conducted on a Saturday morning and will last approximately 30 minutes.
7. **Teaching Potential Interview**: Each applicant will be contacted for a teaching potential interview. Interviews will assess the applicant’s potential for and understanding of teaching in an urban school.

Program Requirements

Students admitted to the IUE must meet the following requirements to continue in the program:

- Maintain a cumulative GPA of 3.0 or higher.
- Meet the professional expectations for students of the IUE.
- Meet the expectations as indicated on the pre-service teacher assessments, each semester.
- Complete the Federal Application for Financial Student Aid (FAFSA), each year.
- Pass a background check as required by the Missouri Department of Elementary and Secondary Education (DESE).
- Complete the College Basic Subjects Exam (CBASE) with scores of 235 or better prior to year three of the IUE program.
- Make a commitment to teach in an urban district for up to four years following graduation in exchange for the financial support, for those receiving IUE scholarships.

Centers and Projects

**CENTERS AND PROJECTS**

[http://education.umkc.edu/centers.asp](http://education.umkc.edu/centers.asp)

**Kansas City Regional Professional Development Center (KCRPDC)**

The Kansas City Regional Professional Development Center (KCRPDC), located at UMKC’s School of Education in July 1995, is comprised 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 level. 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 (MCCEE), which in turn is a part of the National Council for Economic Education. The goal of the Center for Economic Education is to strengthen and support the teaching of economics in K-12 area schools. In keeping with this goal, the center provides graduate coursework, in-service programs and workshops to area teachers. The Economics Education Resource Collection, housed in the Instructional Materials Center in the School of Education, provides resource materials to area teachers.

**Center for the Study of Metropolitan Problems in Education**

The center was established in 1964 to conduct research on important issues in urban education. Topics emphasized in research have included school desegregation, compensatory education, reform of urban schools and demographic trends affecting metropolitan education. The center maintains a small collection of documents and research reports regarding urban education and it conducts or helps to conduct evaluation studies bearing on local projects involving urban education. Additional information may be obtained by calling (816) 235-2448.

**Missouri Council of Teachers of Mathematics**

The Missouri Council of Teachers of Mathematics is a 501(c)3 not-for-profit organization dedicated to supporting and improving mathematics teaching and learning at all levels. With a membership of
more than 2,000, the organization has a long history of quality activities and programs. Affiliated with the National Council of Teachers of Mathematics, MCTM maintains strong contacts with the national agenda and with its own affiliated groups within the state. For more information visit MCTM at http://www.MoCTM.org.

**Berkley Child and Family Development Center**

The Berkley Child and Family Development Center provides quality care and education for young children and serves as a research training site for UMKC students. The center is administered through the School of Education and is part of the academic unit. It is accredited through the National Association for the Education of Young Children and licensed by the state of Missouri. Enrollment is open to the University population and the community for children ages 3 months to 6 years old. During the summer, programming is also provided for children ages 6 to 11 years old. Tuition assistance scholarships are available and are awarded based upon financial need. The center is accessible to children with special needs. To inquire about enrollment or a tour of the facility call (816) 235-2600.

**Missouri Center for Safe Schools**

The purpose of this center is to provide a clearinghouse where urban, suburban and rural schools across Missouri can get information and ongoing assistance to help them develop promising and effective ways of dealing with the kinds of serious problems school violence represents. For additional information call (816) 235-5657.

**Medicine, School of**

**SCHOOL OF MEDICINE**

Hospital Hill Campus  
2411 Holmes Street  
(816) 235-1808  
Fax: (816) 235-5277  
medicine@umkc.edu  
http://research.med.umkc.edu

Mailing Address  
University of Missouri-Kansas City  
School of Medicine  
2411 Holmes Street  
Kansas City, MO 64108-2792

Dean: Betty H. Drees, M.D.  
Provost for the Health Sciences, Emeritus: E. Grey Dimond, M.D.

Senior Associate Dean:  
Paul Cuddy, Pharm.D. (Academic Affairs)  
Associate Deans:  
Louise M. Arnold, Ph.D. (Research in Medical Education and Director, Office of Medical Education and Research)  
Paul Cuddy, Pharm.D. (Council on Curriculum)  
Diana Dark, M.D. (Saint Luke's Hospital Programs)  
Richard J. Derman, M.D. (Women's Health; Clinical Research)  
Rob Hornstra, M.D. (Western Missouri Mental Health Center)  
Kevin Kelly, M.D. (Children's Mercy Hospital Programs)  
Jill A. Moormeier, M.D., M.P.H. (Graduate Medical Education)  
Brenda Rogers, M.D. (Student Affairs)  
Reaner G. Shannon, Ph.D. (Office of Cultural Enhancement & Diversity)  
Mark T. Steele, M.D. (Truman Medical Center)

Chairs  
David Wooldridge, M.D. (Council of Docents)  
John Foxworth, Pharm.D. (Faculty Council)

Assistant Deans  
Steven Go, M.D. (Medical Education)  
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  
- Philosophy  
- Student Learning Outcomes  
- Admissions Requirements  
- Estimated Expenses  
- Library and Information Services  
- Student Services  
- Academic Support Services  
- Counseling and Advising  
- Financial Aid  
- Medical Student Organizations  
- Curriculum  
- Typical Curriculum - Six-Year Program  
- Requirements for Graduation  
- Master of Science in Anesthesia Program

**MASTER OF SCIENCE IN ANESTHESIA PROGRAM**

A newly established program, the Master of Science in Anesthesia Program, will graduate highly trained and competent anesthesiologist assistants (AA’s). AA’s are physician extenders licensed to work under the supervision of anesthesiologists. AA’s provide various anesthesia services in hospitals, surgery centers, and other health care environments.

The availability of medical professionals to deliver anesthesia services is in short supply and this program is being implemented to meet an urgent community need.

The revised application deadline is May 15th. While start dates are subject to change, the inaugural class should begin in July with a cohort of four to five students. Additional information regarding the 24-month program and admission requirements may be obtained at the AA Web site at http://aaprogram.medicine.umkc.edu.

**History**

**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.
Philosophy

The fundamental purpose of medical schools is to educate physicians. The prime objective of all professionals, physicians included, is to apply a sophisticated body of knowledge and skills to the solution of problems faced by people. In doing so, the individual will follow standards of the profession for competence, ethics and communication and will demonstrate commitment to the principles of professionalism - altruism, humanism, excellence and accountability.

The school does not separate the several obligations of a medical school: to educate the student, the house officer and the physician; to attract new talent to the health-care field and to ensure that talent remain active and prepared; to maintain maximum standards of ethics and care; to have concern equally for the individual and for the community; and to foster inquiry, to find answers and to apply those answers.

Student Learning Outcomes

Effective Communication

Years 1-2

- The student demonstrates competence in written communications such as laboratory reports, term papers and other classroom writing assignments.
- The student demonstrates competence in oral communications in a one-on-one setting, such as introducing and beginning a history with an individual patient. History-taking skills at this level will be very basic and straightforward.
- The student demonstrates effective listening skills with faculty members, other students and patients.

Clinical Skills

- The student is able to perform the basic elements of a history. The student will have observed a physical examination and observed some of the routine clinical procedures.

Using Basic Science in the Practice of Medicine

- The student has an introductory and very general understanding of anatomy and microbiology.
- The student has a more advanced understanding and an ability to apply some information to a few clinical situations in biochemistry and physiology.

Diagnosis, Management and Prevention

- The student is able to identify general, rather than specific approaches to management, but is usually not expected to carry them out in real settings.

Lifelong Learning in Medicine, Basic Sciences, the Social Sciences and the Humanities

- The student is proficient in framing a question, utilizing modern information searching modalities, organizing data, compiling and using information to answer the question in the context of a structured setting, such as an undergraduate course.
- The student has an introductory knowledge of the humanities and social science. Enough information is learned at this level to stimulate the student to desire further learning in medicine, humanities and social sciences.

Self-awareness, Self-care, Personal Growth and Professional Behavior

- The student exhibits behaviors indicative of personal self-awareness through a process of self reflection. Students are able to identify potential areas of weakness and are able to conceive of potential options for addressing these areas.
- The student is able to identify areas of strength and is able to build on these strengths.
- The student is able to set goals for a self-study plan.
- The student is aware of his/her personal growth in regards to age specific developmental tasks.
- The student knows the elements of professional behavior and can explain the meaning of each element.
- The student can cite an example of how each of the elements applies in Year 1 and Year 2 coursework for the baccalaureate and M.D. degree.
- The student appreciates some of the non-biological factors that influence health, disease, disability and access to care.
- The student attributes proper importance to identifying non-biological factors.
- The student is aware of different value systems and life styles.

Moral Reasoning and Ethical Judgment

- The student can identify and apply ethical considerations relating to professional behavior and student conduct as a forerunner to professional behavior.
- The student develops an introductory understanding of ethical choices related to a few controversial medical issues.

Problem-Solving Skills

- The student displays competence in basic problem-solving skills as applied to basic science courses or simple, straightforward medical problems.

Years 3-4

Effective Communication

- The student develops and demonstrates competency in using the written language effectively by:
  - Medical record documentation in the continuing care clinic and on docent rotation.
  - Writing papers for courses and rotations.
  - Essay examinations in medical ethics.
- The student develops and demonstrates competency in using oral language and listening effectively by:
  - Communicating with patients and families in the continuing care clinic and on docent rotation.
  - Communicating with senior partners, peers and faculty.

Clinical Skills

- The student is able to perform a comprehensive history and physical examination of patients in the outpatient setting and the general medical wards, excluding critical care settings.
- The student is competent in performing venipuncture and basic CPR.
- The student is able to perform a Gram-stain, vaginal smear wet prep, stool occult blood, urinalysis, urine pregnancy test, finger stick glucose determination and peak expiratory flow rate.
- The student has observed and is familiar with some of the more complex or specialized lab and diagnostic tests.
- The student knows the basics in the interpretation of plain x-ray studies; chest x-ray, abdominal x-ray.

Using Basic Science in the Practice of Medicine

- The student applies knowledge in the areas of behavioral science, anatomy, pathology, biochemistry, physiology, microbiology and immunology, and pharmacology to the overall care of patients.

Diagnosis, Management, Continuing Care and Prevention

Years 3-4
Admission Requirements

ADMISSION 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 46 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.

Admissions Office/Enrollment Services

Admission Requirements

Lifelong Learning in Medicine, Basic Sciences, the Social Sciences and the Humanities

- The student is able to interpret standard diagnostic studies and history and physical examination data. From these data, the student is able to state the most likely diagnosis when presented with straightforward presentations of common problems in general internal medicine. The student is expected to carry out management plans in those situations that are relatively straightforward and uncomplicated.

Self-awareness, Self-care, Personal Growth and Professional Behavior

- The student is reflective about him or herself in a group context.
- He or she is able to confront his/her own values as they relate to the practice of medicine.
- The student is able to identify real situations of stress and his/her response to these situations.
- The student is able to practice personal techniques for relaxation and time management and can modify behavior and respond to constructive criticism.

Diversity and the Social and Community Contexts of Health Care

- The student elicits and identifies non-biological factors as part of the routine history taking and includes those issues, as appropriate, in the problem list formulations and management plans.
- The student takes personal responsibility for discussing these issues with patients, assessing their needs and matching them to appropriate community resources.
- The student works with his/her individual patients and families to enhance their total well-being.

Moral Reasoning and Ethical Judgment

- The student is able to employ ethical concepts and reasoning when presented with typical ethical cases in medicine, and is able to recognize ethical issues in medical practice.

Problem-Solving Skills

- The student displays competence in problem-solving skills with common clinical problems utilizing a limited knowledge base.

Years 5-6

Effective Communication

- The student develops and demonstrates competency in using the written language effectively by:
  - preparing written patient education material.
  - writing clinical papers.
  - journals, short stories, papers or poetry during medical humanities and social science courses.
- The student develops and demonstrates competency in using oral language and listening effectively by:
  - communicating with patients and families in the continuing care clinic and clinical rotations.
  - presenting new patients to faculty in continuing care clinic and clinical rotations.
  - helping write lecture notes in clinical rotations utilizing slides and handouts.
  - communicating with student partners, peers, faculty and the health care providers.
  - oral examinations.
- The student develops and demonstrates competency in respecting patients and sharing information effectively with patients, families and health care team members by:
  - interacting with the individuals on clinical rotations and the continuing care clinic.
  - working as an integral part of the doctor team and teams on other clinical rotations.
  - functioning as an effective senior student partner.

Clinical Skills

- The student is able to perform the basic and emergency elements of a history and physical examination smoothly and efficiently in the outpatient setting, inpatient setting, critical care setting and emergency department settings.
- The student is able to perform and interpret basic clinical procedures, laboratory and diagnostic tests smoothly and efficiently as listed.
- The student is able to describe the procedural steps necessary to carry out advanced clinical procedures as listed.
- The student observes and is able to state the indications, complications, and limitations of advanced clinical procedures as listed.
- The student is aware of the indications, complications and limitations of and interpret from the written reports complex and specialized laboratory and diagnostic tests as listed.

Using Basic Science in the Practice of Medicine

- The student is able to explain a multi-system health problem in terms of pathogenesis, mechanisms of system-to-system interactions and potential complications. The student is able to present therapeutic goals and interventions aimed at the multiple pathophysiological forces in motion.
- The student is able to exhibit clinical decision analysis that weighs the pros and cons of proposed interventions, taking into consideration such factors as drug-drug interactions and the trade-off of proposed drug interventions in the context of multi-system problems.

Diagnosis, Management, and Prevention

- The student is able to state the most likely diagnosis and management plan when presented with presentations of common problems in any of the major disciplines.
- The student is able to integrate the approach of care to individuals, families and communities, taking advantage of opportunities for prevention and education in addition to the immediate physical care.
- The student through his/her experiences in the continuing care clinic is able to provide continuing care and management for both chronic and acute medical problems and provide appropriate plans for prevention.

Lifelong Learning in Medicine, Basic Sciences, the Social Sciences and the Humanities

- The student begins to explore new opportunities for intellectual growth and professional enlightenment in medicine, the social sciences and humanities.
- The student attends a continuing medical education course.
- The student continues to recognize his/her limits of knowledge and experience.
- The student is able to recognize the significance of valid scientific discoveries reported in medical journals and recognize unsubstantiated, inaccurate or poorly performed studies and conclusions.

Self-awareness, Self-care, Personal Growth and Professional Behavior

- The student utilizes skill in coping with stress during clinical rotations.
- The student develops and demonstrates appropriate personal values and beliefs relevant to his/her practice of medicine.
- The student demonstrates compassion, sensitivity, honesty, integrity, dependability and responsibility in his/her day-to-day interactions with patients, families, peers, faculty and staff.

Diversity and the Social and Community Contexts of Health Care

- The student is able to identify and propose solutions for non-biological factors that influence health, disease, disability and access to care.
- The student is able to utilize resources in the community that may provide assistance to his or her patients.
- The student is an advocate for better health for the patients and the community.
- The student demonstrates knowledge of practice management, utilization review, quality improvement and economic and cultural issues in health care.

Moral Reasoning and Ethical Judgment

- The student is able to identify patient care and health policy ethical issues and choices in his or her own clinical experience; to evaluate critically alternative ethical courses of action by analyzing and articulating reasons for the relative importance of the different ethical considerations bearing on each choice; to select and ethically defend a course of action.
- The student recognizes the importance of the ethical treatment of research subjects and the functions of an Institutional Review Board.

Problem Solving

- The student displays competence in more advanced clinical problem solving using a comprehensive knowledge base.
- The student can effectively utilize a team approach in solving clinical problems.
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 20 percent of the class may be accepted from out of state.

Criminal background checks will be performed on combined-degree students and M.D.-only students before matriculation into the program.

**APPLICATION FEE AND TIMETABLE FOR APPLYING**

A $35 application fee is required of all resident applicants. A $50 application fee is required of all regional and 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>
</tr>
</thead>
<tbody>
<tr>
<td>Resident</td>
<td>$24,268</td>
<td>$28,142</td>
</tr>
<tr>
<td>Regional*</td>
<td>$35,844</td>
<td>$41,611</td>
</tr>
<tr>
<td>Nonresident</td>
<td>$47,420</td>
<td>$55,075</td>
</tr>
<tr>
<td>Room &amp; Board</td>
<td>$7,841</td>
<td>$8,869</td>
</tr>
<tr>
<td>Books and Supplies</td>
<td>$1,200</td>
<td>$1,200</td>
</tr>
<tr>
<td>Medical Instruments</td>
<td>(a one-time expense)</td>
<td>$550</td>
</tr>
</tbody>
</table>

*Effective Fall Semester 2007, the School of Medicine’s fees will be restructured to include a regional tuition rate for students from certain Midwestern states. Newly admitted students from Kansas, Oklahoma, Nebraska, Arkansas and Illinois will be assessed at 1.5 times the resident rate. Students from other states will be assessed at 2 times the resident rate.

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 change.

**Library and Information Services**

**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**

**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.
**MEDICAL STUDENT ORGANIZATIONS, PUBLICATIONS AND AWARDS**

**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 AMSA is the largest student-run organization in the United States and provides a comprehensive introduction to the medical profession. It offers opportunities for leadership development and social events.

**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.

**Global Medicine Relief Program**
GMRP’s mission is to promote quality health care in under-served communities around the world by working with local doctors and health care professionals and by providing medical supplies and equipment; to provide dental, hygiene and basic health care supplies in areas of natural disaster; to promote human rights in developing regions by improving health infrastructure; to participate in a global community of organizations which are similarly dedicated to providing health care in developing regions; and to organize student groups at all educational levels in these humanitarian efforts. GMRP especially seeks to touch the lives of the most vulnerable people in any population and believes in the importance of assisting both internally and externally displaced refugees.

**Publications**
A monthly publication, Panorama, is primarily distributed to alumni, affiliated hospitals and friends of the school and is available throughout the school.

**Awards**
- Alpha Omega Alpha - National Scholaristic Honorary Society; charter awarded in 1985 to UMKC School of Medicine
- 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. Beaty and Deloras Pemberton Scholarship
- Dr. and Mrs. Bharat Shah Academic Scholarship
- Family Health Foundation of Missouri Achievement Award
- The Founding Dean’s Founders Award
- The Lange Medical Publications Award
- The Laura L. Badius, M.D. Memorial Award for Excellence in Pediatrics
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.

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.

The fundamental objective of the School of Medicine is to graduate physicians able to meet the health care needs of Missouri and the nation.

Classes begin in the fall of year 1. By using 35 weeks of study the first year and 48 weeks every year after that, each student will have the opportunity to earn the credits necessary for both a baccalaureate and a medical degree. This six-year continuum does not make an arbitrary separation between liberal arts and professional education.

The first two years of the six-year curriculum are arranged for the student to blend three-fourths of the time in liberal arts coursework and one-fourth of the time in introduction to medicine coursework. This initial two-year period allows students adequate time to determine whether they are motivated enough to continue in medicine. At the same time, the faculty will have adequate opportunity to judge whether each student has the characteristics and capabilities necessary for a career in medicine.

The introduction to medicine courses during the first two years are designed to provide just that — an introduction to medicine. Special attention is given to the effect of illness on the patient, the family and the community. There is emphasis on the coordination of effort, the team approach, to the solution of medical and health care problems. The year 1 and 2 curriculum has been further enhanced with the addition of a geriatrics program which pairs students with aging mentors. The courses will integrate patient interviews and examinations with branches of science fundamental to clinical medicine, including anatomy, physiology, biochemistry, psychology and sociology.

These courses have certain coordinated objectives, each of which represents an important component in the general concept of medicine as applied to human biology. The objectives are to help students understand and learn about the following:

- The language and vocabulary of medicine.
- The effects of illness on individuals, families and communities.
- The background setting of illness and health care, including the importance of social, psychological and economic factors.
- The history of medicine and its present state.
- The roles and responsibilities of physicians and other personnel involved in health care.
- Selected content information from anatomy, physiology, chemistry, psychology, sociology and other sciences fundamental to medicine, together with the continuing importance of such information in the reasoning of the physician.
- The logic, rationale and process of clinical reasoning.

An important feature of the School of Medicine program is the early and continuing contact of the student with a team of scholars called docents. Each docent is a full-time physician responsible for the education of a small group of students. The docent serves as a role model for students as well as a guide and mentor. At year 3, students are assigned to a docent team, a group composed of students from each of year 3 through year 6 classes. Beginning in year 4, students spend two months each year on docent rotation, an internal medicine clerkship. During this time in particular, and throughout the rest of the academic year, the docents guide their students through the experiences necessary to acquire a strong foundation of clinical competence. Students in their third and fourth years are partnered with their fifth- and sixth-year peers on the docent unit.

The School of Medicine program in years 3 to 6 of the combined degree program has several features:

- The core educational program is designed and directed by physicians who are primarily concerned with medical student education and who have patient care responsibilities;
- Since the curriculum core content is based on clinical experiences, the medical student’s education will be problem-centered. Faculty from many University disciplines participate in teaching medical students, and education in the clinical sciences takes place in affiliated hospitals. These hospitals provide a communitywide model for patient care;
- The curriculum integrates liberal arts, basic sciences and clinical medicine. It uses planned repetition, reinforcement and relevancy to enable students to acquire the requisite attitudes, knowledge and skills expected of a Medical School graduate;
- Students may have an extended program by taking extra time;
- During the third through sixth years, students are required to return to the Volker campus at least two times, usually in years 3 and 4, to take liberal arts coursework. Students are also required to enroll in a medical humanities course in year 5 or year 6.

Typical Six-Year Program Curriculum

**Year 1**

**Medical**

**Fall**
- Medical Terminology

**Spring**
- Fundamentals of Medical Practice I
- Fundamentals of Medical Practice II

**Arts & Sciences**

**Fall**
- Human Biology I (Anatomy) w/Lab
- General Chemistry I w/Lab
- Psychology
- Courses for B.A. Degree *

**Spring**
- Human Biology III (Microbiology) w/Lab
- General Chemistry II w/Lab
- Sociology
- Courses for B.A. Degree *

**Year 2**

**Medical**

**Summer**
- Hospital Team Experience
Fall  Fundamentals of Medical Practice III  
Spring  Fundamentals of Medical Practice IV

Arts & Sciences  
Summer  Organic Chemistry w/Lab  
Fall  Human Biochemistry  
Sociology - Life Cycles  
Genetics

Courses for B.A. Degree*

Spring  Structure/Function I, II, III  
Courses for B.A. Degree*

Year 3  
Medicine  
History of Medicine  
Clinical Correlations  
Clinical Skills  
Introduction to Pharmacology (Independent Study)  
CUES  
Pathology I & II  
Medical Microbiology  
Medical Neurosciences  
Continuing Ambulatory Care Clinic

Arts & Sciences  
Structure/Function IV

Year 4  
Medicine  
Pharmacology  
Behavioral Sciences in Medicine  
Docent Rotation  
Family Practice  
Ambulatory Care Pharmacology (Indep Study)  
Continuing Ambulatory Care Clinic

Arts & Sciences  
Courses for B.A. Degree*

Year 5  
Medicine  
Psychiatry  
Prescribing for Special Populations (Indep Study)  
Obstetrics/Gynecology  
Pediatrics  
Family Medicine Preceptorship  
Surgery  
Elective  
Docent Rotation  
Emergency Medicine (may be taken in Year 6)

Arts and Sciences  
Humanities/Social Sciences (may be taken in Year 6)

Year 6  
Medicine  
Docent Rotation  
Emergency Medicine (may be taken in Year 5)  
Rational & Safe Drug Prescribing (Indep Study)  
Electives  
Continuing Ambulatory Care Clinic

Arts & Sciences  
Humanities/Social Sciences (may be taken in Year 5)

* 3 to 12 credit hours will come from general degree requirements and/or core major requirements.

All students are required to take three clinical electives, one of which must be direct patient care.

Requirements for Graduation

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.  
6. Three returns back to the College of Arts and 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 (Clinical Knowledge and Clinical Skills).  
10. 48 months of enrollment in the School of Medicine, years 3 to 6 (including M.D.-only students).  
11. At least three clinical electives, which must be selected from three of nine general categories.

Music and Dance, Conservatory of

CONSERVATORY OF MUSIC AND DANCE  
Performing Arts Center  
4949 Cherry Street  
(816) 235-2900  
conservatory@umkc.edu  
http://www.umkc.edu/conservatory

Mailing Address  
University of Missouri-Kansas City
Conservatory of Music and Dance  
5100 Rockhill Road  
Kansas City, MO 64110-2499  

Dean:  
New Dean August 2008  
Interim Associate Dean for Academic Affairs:  
TBA  

- General Information  
  - History  
  - Accreditation  
  - Advising  
  - Studies in American Music  
  - Ensembles  
  - Professional Organizations  
  - Continuing Education  
  - Scholarships or Special Awards  

- Undergraduate Programs  
  - Admissions: New Students  
  - Admissions: Transfer Students  
  - General Education Requirements  
  - Requirements for Placing Students in Applied Music Courses  
  - Recital Requirements  
  - Ensemble Requirements  
  - Recital and Concert Attendance  

- Bachelor of Music  
  - Student Learning Outcomes  
  - Minimum Core Requirements for All B.M. Degrees  
  - Minimum Foreign Language Requirements for B.M. Degrees  
  - Bachelor of Music in Music Composition  
  - Bachelor of Music in Performance  
    - Guitar Emphasis Area  
    - Jazz and Studio Music Emphasis Area  
    - Organ Emphasis Area  
    - Piano Emphasis Area  
    - Piano Pedagogy Emphasis Area  
    - String Instrument Emphasis Area  
    - Voice Emphasis Area  
    - Wind and Percussion Emphasis Area  
  - Bachelor of Music in Music Theory  

- Bachelor of Fine Arts  
  - Student Learning Outcomes  
  - Bachelor of Fine Arts in Dance  

- Bachelor of Arts in Music  
  - Student Learning Outcomes  
  - Degree Program Prerequisites  
  - Required Music Courses  
  - Required General Studies Courses  
  - Music Therapy Emphasis Area Prerequisites  

- Bachelor of Music Education  
  - Student Learning Outcomes  
  - Certification Procedures  
  - Bachelor of Music Education Emphasis Areas  
  - Bachelor of Music Education - Choral and Instrumental Emphasis Areas  
  - Bachelor of Music Education - Instrumental Emphasis Area  
  - Bachelor of Music Education - Choral Emphasis Area  
  - Bachelor of Music Education - Music Therapy Emphasis
HISTORY
The Conservatory is an active participant in mid-America's most important cultural center, Kansas City. This geographical setting provides students with the opportunity to hear and work with the Conservatory's own talented artist-faculty and internationally known artists who perform in the area.

The Conservatory of Music and Dance traces its lineage to a merger of two early Kansas City conservatories, the Kansas City Conservatory of Music and the Horner Institute of Fine Arts. A second merger in 1959 joined the Conservatory with the University of Kansas City. In 1963, the private University of Kansas City became a part of the state university system as UMKC, with the Conservatory as a component college.

ACCREDITATION
The Conservatory of Music's degree programs are accredited by the National Association of Schools of Music (1933) and the National Council for Accreditation of Teacher Education (1961).

ADVISING
All undergraduate and graduate students should be advised by the appropriate student services coordinator or associate dean prior to any registration. All music education or therapy students should see a faculty member in music education/therapy for advising.

STUDIES IN AMERICAN MUSIC
The UMKC Conservatory’s Barr Institute for American Composition Studies was formed through the generosity of Howard and Patricia Barr for the purpose of:

1. Supporting the acquisition, care, preservation, use and promotion of existing materials related to the period of American composition between 1890 and thereafter, excluding the art of jazz and its derivatives.
2. Promoting individual research initiatives related to the historical and theoretical underpinnings of post-1890 American Classical Music.
3. Supporting new composition efforts including commissions, theses and dissertations by composition students.
4. Supporting collaborative and interactive efforts to study new music.

ENSEMBLES
The Conservatory offers students the opportunity to participate in a variety of ensembles that perform throughout the year. More than 20 ensembles are open by audition to all University students who can qualify. The ensembles include:

- Conservatory Orchestra
- Chamber Orchestra
- Percussion Ensemble
- Jazz Workshop
- Jazz Orchestra
- Jazz Band
- Wind Symphony
- Wind Ensemble
- Bella Voce
- Conservatory Concert Choir
- Conservatory Singers
- Canticum Novum
- Musica Nova
- Opera/Musical Theatre Ensemble
- Ensemble for Composers

**PROFESSIONAL ORGANIZATIONS**
The Conservatory sustains chapters of national professional and honor fraternities, including Sigma Alpha Iota and Mu Phi Epsilon, and the national honor society, Pi Kappa Lambda.

The Conservatory maintains an affiliation with the National Federation of Music Clubs and with student chapters of MENC: The National Association for Music Education, the American Music Therapy Association, the International Association of Jazz Educators, the American Guild of Organists and the American Choral Directors Association.

**CONTINUING EDUCATION**
The Conservatory’s Community Music and Dance Academy has the mission of bridging the national reputation and excellence of the UMKC Conservatory of Music and Dance with the local musical needs of the Kansas City community. The Academy currently offers private and group instruction to 600 area musicians and dancers; coordinates camps and festivals for the Kansas City area and provides professional development through workshops and in-service to area educators and therapists.

The instructors in the Community Music and Dance Academy are professional educators, therapists, musicians and dancers. Many have advanced degrees or are current graduate students or professors at the University of Missouri-Kansas City Conservatory of Music and Dance. Academy faculty have trained with professional musicians within and outside the Conservatory and regularly perform as soloists or with ensembles locally, nationally and internationally. Some have even published and recorded their work. Most are active members of professional music organizations at the local, state and national levels.

**SCHOLARSHIPS OR SPECIAL AWARDS**
Scholarships are available to Conservatory students and are awarded on the basis of ability (demonstrated at the audition) and academic standing. Scholarships are awarded for one year but can be renewed annually, provided students maintain the appropriate grade level, continue satisfactory performance in the major performance area, and participate in major ensembles as prescribed.

Applicants for Conservatory scholarships must complete all regular admissions procedures in order to be considered. Conservatory scholarship applications are included with the applicant’s packet.

In accordance with the code of ethics of the National Association of Schools of Music, the acceptance of financial aid by a candidate is considered a declaration of intent to attend the institution, and each candidate will be so informed. The code further declares that such a student may not consider any other offer from an institutional member of the NASM except with the written consent of the music executive of the first institution. Similarly, a transfer applicant cannot be considered for financial aid without the written recommendation of the head of the music department from which the transfer is being made.

**UNDERGRADUATE PROGRAMS**
The Conservatory of Music and Dance offers the bachelor of fine art, bachelor of art, bachelor of music and bachelor of music education degrees. The specific degrees and their requirements are listed on the following pages.

**ADMISSIONS: NEW STUDENTS**
New students must meet the general requirements for admission to the University. Additionally, a 10-minute audition is required in the applicant’s major performance field to determine proficiency and placement in the appropriate applied level.

Auditions serve as criteria for admission and for scholarships and are held during the late fall and early winter. Auditions are advisory in nature regarding performance level. It is preferred that auditions take place at the Conservatory. In cases of extreme distance or scheduling problems, a taped audition may be submitted by the applicant.

**ADMISSIONS: TRANSFER STUDENTS**
All undergraduate transfer students must:
1. Be admitted to the University and the Conservatory.
2. Present complete official transcripts.
3. Audition for applied placement.
4. Take a theory examination for validation of theory level.

**GENERAL EDUCATION REQUIREMENTS**
1. All Conservatory students must meet the requirements as covered in the General Undergraduate Academic Regulations and Information section of this catalog.
2. When American history or social science is required, courses may be selected from the following: History 202, 203 or Political Science 210, American Government.

- Withdrawal policy for all Conservatory students:
  1. Students can withdraw without academic assessment during the first eight weeks of a semester.
  2. Students can withdraw with academic assessment from week nine to one month before the beginning of the examination period.
  3. Students who withdraw from classes any time during the final month of scheduled classes will receive an automatic assessment of WF.

1. All Conservatory undergraduate students must take the UMKC Written English Proficiency Test after completion of 45 hours of coursework or before beginning their junior years. Students who fail the test must take English 299 and pass the proficiency test before their diplomas are awarded. Exceptions would be Conservatory students for whom English is a second language. These students would be required to take the test after all English language requirements of their degree program are met.
2. Students enrolling in Music Theory I-IV and Ear Training and Sight Reading I-IV must receive a C- grade or better to progress to the next appropriate class level. Students enrolling in Keyboard Skills I-IV must receive a B- grade or better to progress to the next appropriate class level.

**REQUIREMENTS FOR PLACING STUDENTS IN APPLIED MUSIC COURSES**
1. All new students (including transfers) must audition before the appropriate faculty for advisement and placement. The final determination of course number and hours of credit is made at the first jury. (This placement could range from a non-credit program to Music 402 or Dance 442.)
2. All readmitted students will be assigned a level (major or secondary), a course number and the appropriate hours credit based on their last jury at UMKC. Any students who have interrupted their applied studies at UMKC for two or more consecutive semesters (not counting the summer session) must re-audition before the appropriate faculty.
3. Periodically, as required by the performance divisions, all students taking lessons for credit will perform before a jury composed of the appropriate faculty, with the exception of levels 1008
and 100C. If a jury is not required in a given semester, the grade will be assigned by the applied teacher. Students who have presented a degree-plan recital (an evaluated recital) for the current semester will be assigned a recital grade without a jury. Recital and jury grades are assigned according to the average of the teacher's grade (50 percent) and the jury committee's grade (50 percent).

4. Final approval for advancement is subject to the action of the appropriate jury. If the jury decides that students have not made satisfactory progress, the students will be required to repeat a level, even though they might receive a passing grade.

5. Upon completion of the 202 applied level, all students must have applied jury approval to move on to the 301 applied level of study. All students seeking a bachelor of music degree in performance must petition the appropriate applied jury for permission to continue in the degree program at the junior level.

6. Students can request a change of level from secondary to major, or from major to secondary, for the next term but not the current term. In any case, students must complete the total number of hours required for the degree in applied music. Credit hours in major applied-music studies earned at another institution will be validated according to the approval of the appropriate jury.

7. Skipping a class number is not allowed. Students advance either by satisfactory performance at a regular jury or by credit obtained through examination. The UMKC Registration Office should be contacted for details and actual registration for receiving credit through examination.

8. All freshman and transfer students who are applying for admission as composition majors must take an applied audition as part of the application and admissions process. Results of the audition will be communicated to the composition coordinator, and will be used as part of the overall decision-making process, together with the student’s portfolio, transcripts and supporting documents. In cases where the audition is not acceptable or where there is no room for that student in a given applied studio, the composition faculty may elect, if the other portions of the application are sufficiently strong, to recommend admission for the student on a provisional basis. The student must re-audition after a maximum of two semesters of study; if the situation is not resolved by the end of the first year, the student may then be denied composition major status and/or music major status.

9. All Conservatory students, except those in bachelor of music performance with piano emphasis, are required to successfully complete Conservatory 310, Keyboard Skills IV, with a grade of B- or better before graduation.

10. Students who are late for lessons, or who miss them, do so at their own loss. Lessons missed for personal reasons of the instructor will be made up. Lessons missed because of students’ illness will be made up at the discretion of the instructor.

11. All bachelor of music students, except composition majors, must complete Applied Music Studies 402. A graded public recital is required. Music Theory majors must complete Applied Studies 402 (2 credit hours), with participation in Conservatory 402 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 the students and the division. This grade will be in lieu of the jury at the option of the division.

3. Students must give the required recital during a semester that they are enrolled in a 400-level applied-music studies course.

4. Bachelor of music majors with a jazz and studio music emphasis are required to present a public senior recital at least 50-minutes in length during the 402J semester. The program will include works arranged or composed by the student, chosen from a portfolio submitted to the appropriate jazz/studio music and composition faculty for approval. The student will perform works from the jazz repertoire on his or her major instrument.

Ensemble Requirements

1. Participation in at least one ensemble is required each semester that students are enrolled full-time (12 hours or more) on campus, as required by the students' degree programs, except composition majors (see music composition programs for required courses).

2. Student participation in Conservatory ensemble rehearsals and performances shall take precedence over non-Conservatory presentations.

3. A minimum of eight semesters of ensemble credit is required for graduation on any degree plan, except for the music education degree with emphasis in music therapy, which requires six semesters.

4. All undergraduate students enrolled in applied lessons on orchestral instruments must be enrolled in a major instrumental ensemble each semester, except composition majors (see music composition program for required courses), and music education students during the student-teaching semester.

5. All undergraduate Conservatory students whose major instruments are orchestral and who are enrolled in six or more hours must be enrolled in a major instrumental ensemble. This applies to all degree programs.

6. Bachelor of music majors with jazz and studio emphasis must participate in either Jazz Orchestra or Jazz Band each semester in residence. These students also will be required to participate in a major ensemble as stated in numbers 1-5 of Recital Requirements.

Recital and Concert Attendance

Undergraduate Conservatory students in BA Music, BM Jazz, BM Organ Performance, BM Theory and BMME Choral are required to register for Conservatory 134 and to be an audience member at 12 live performances, lectures or master classes in the performing arts each semester until degree is completed. Four of these must be Conservatory events, four must be approved by faculty of the student’s major division, and four may be chosen at the student’s discretion. Events chosen at the student’s discretion may include concerts/lectures needed to fulfill the requirements of a Conservatory academic course. A part-time Conservatory student may spend two semesters of an academic year in completing one credit hour.

Degree Program Prerequisites

1. The student should be able to qualify for Conservatory 101, Applied Music Studies for Freshmen, for two hours credit, in the major performance area. The student also should have some familiarity with a keyboard instrument.

2. Previous experience in music, such as high school band, orchestra or chorus, is desirable.

3. Interest in a field of study outside of music is desirable.

Certification Procedures

Upon completion of the bachelor of music education degree, students must initiate the application for Missouri and Kansas certification in the Student Services Office of the School of Education. Applications should be filed during the student teaching semester. Certification is not automatic.

Elementary and secondary student teaching are required for the K-12 certificate. All prospective teachers must take and receive a satisfactory score on the following tests for state certification:

- For Missouri certification, students must receive a satisfactory score on the Praxis II professional knowledge.
- For Kansas certification, students must receive satisfactory scores on the Pre-Professional Skills Test (PPST) in reading, writing and mathematics, and the Praxis II core test.

Conservatory

- 101C Voice Class I (2)
- 102 Fundamentals of Music Theory (2)
- 103 Jazz Improvisation I (2)
- 104 Jazz Improvisation For Non-Jazz Majors (2)
- 105 Beginning Piano For Non-Music Majors (2)
- 112 Keyboard Skills I (2)
- 113 Piano Sight-Reading I (1)
- 114 Piano Sight-Reading II (1)
- 115 Music Appreciation (3)
- 116 Music Theory I (3)
- 117 Music Theory II (3)
- 119 Keyboard Skills II (2)
- 120 History And Development Of Rock And Roll (3)
- 126 Introduction to World Music (3)
- 127 Music And Film (3)
• 128 Introduction To Music Education/Music Therapy (1)
• 130 Ear Training And Solfege (1)
• 130 Music Therapy Techniques: Adults (3)
• 133 Beginning Composition I (3)
• 133A Beginning Composition For Non-Composition Majors I (2)
• 133B Beginning Composition For Prospective Composition Majors (3)
• 133C Beginning Composition II (3)
• 133D Beginning Composition For Non-Composition Majors II (2)
• 133E Beginning Composition For Prospective Composition Majors II (3)
• 134 Beginning Composition For Non-Composition Majors (3)
• 134A Beginning Composition For Non-Composition Majors II (2)
• 134B Beginning Composition For Prospective Composition Majors II (3)
• 135A Music Listening Laboratory: Non-Western Cultures (1)
• 135B Music Listening Laboratory (1)
• 135C Music Listening Laboratory: Non-Western Cultures (1)
• 135D Music Listening Laboratory: Non-Western Cultures (1)
• 135E Music Listening Laboratory: Non-Western Cultures (1)
• 135F Music Listening Laboratory: Non-Western Cultures (1)
• 135G Music Listening Laboratory: Non-Western Cultures (1)
• 135H Music Listening Laboratory: Non-Western Cultures (1)
• 135I Music Listening Laboratory: Non-Western Cultures (1)
• 135J Music Listening Laboratory: Non-Western Cultures (1)
• 135K Music Listening Laboratory: Non-Western Cultures (1)
• 135L Music Listening Laboratory: Non-Western Cultures (1)
• 135M Music Listening Laboratory: Non-Western Cultures (1)
• 135N Music Listening Laboratory: Non-Western Cultures (1)
• 135O Music Listening Laboratory: Non-Western Cultures (1)
• 135P Music Listening Laboratory: Non-Western Cultures (1)
• 135Q Music Listening Laboratory: Non-Western Cultures (1)
• 135R Music Listening Laboratory: Non-Western Cultures (1)
• 135S Music Listening Laboratory: Non-Western Cultures (1)
• 135T Music Listening Laboratory: Non-Western Cultures (1)
• 135U Music Listening Laboratory: Non-Western Cultures (1)
• 135V Music Listening Laboratory: Non-Western Cultures (1)
• 135W Music Listening Laboratory: Non-Western Cultures (1)
• 135X Music Listening Laboratory: Non-Western Cultures (1)
• 135Y Music Listening Laboratory: Non-Western Cultures (1)
• 135Z Music Listening Laboratory: Non-Western Cultures (1)
### Instrumental Techniques
- Flute And Clarinet (1)
- Trumpet-Horn (1)
- Percussion (1)
- Oboe-Bassoon (1)
- Guitar (1)
- Trombone-Tuba (1)
- Saxophone-Wind Review (1)
- Survey Of Wind And Percussion Instruments (1)
- Survey Of String Instruments (1)

### Accompanying
- I (2)
- II (2)

### Band Ensemble Techniques
- (2)

### String Ensemble Techniques
- (1)

### Basic Conducting - Choral
- (2)

### Basic Conducting - Instrumental
- (2)

### Secondary Music Methods - Instrumental
- (2)

### Special Percussion Methods
- For Music Therapy Students (1)
- For Dance Students (1)

### Additional Courses
- Business Jazz And Commercial Music (3)
- Acoustics (3)
- Arranging For Choral Groups (2)
- Arranging Instrumental (2)
- Jazz Arranging For Small Ensembles (2)
- Jazz Arranging For Big Bands (2)
- 18Th Century Counterpoint I (2)
- Contemporary Harmonic/Contrapuntal Style (3)
- Orchestration II (2)
- Composition Recital (3)
- The Practice and Study of Creativity (3)
- Psychological Foundations Of Music (3)
- Computer Literacy For Music Teachers (3)
- Jazz Keyboard Techniques I (2)
- Jazz Keyboard Techniques II (2)
- Introduction To Arts Administration (2)
- Arts Administration Practicum (1)
- Vocal Literature I (2)
- Vocal Literature II (2)
- Advanced Choral Literature (3)
- Piano Literature III (Romantic) (2)
- Piano Literature II (3)
- Wind And Percussion Literature (2)
- Organ Literature II (2)
- Introduction To Pedagogy And Literature Woodwinds (3)
- Introduction To Pedagogy And Literature Brass (3)
- Introduction To Pedagogy And Literature Percussion (3)
- Introduction To String Literature And Pedagogy (2)
- Jazz/Commercial Music Pedagogy (2)
- Accompanying III (1)
- Accompanying IV (1)
- Advanced Instrumental Conducting (2)
- Independent Study (1-3)
- Pedagogical Practices I Voice (2)
- Pedagogical Practices I Organ (2)
- Pedagogical Practices I Theory (3)
- Pedagogical Practices I General (3)
- Pedagogical Practices II Voice (2)
- Pedagogical Practices II Organ (2)
- Performance Styles (2)
- Advanced Piano Pedagogy I (2)
- Advanced Piano Pedagogy - Supervised Teaching III (1)
- Advanced Piano Pedagogy II (2)
- Advanced Piano Pedagogy - Supervised Teaching Iv (1)
- Seminar-Workshop In Music (1-4)
- American Music Company Choral Reading Sessions (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music: Music History Review (Late) (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Seminar-Workshop In Music (1-4)
- Research Problems (2)

### DANCE
- Computer Technology for Dance (3)
• 107 Dance Production I (2)
• 108 Dance Production II (2)
• 140A Analysis Of Movement For The Dance I (1)
• 140B Analysis Of Movement For The Dance II (1)
• 141B Ballet Technique And Theory I (3)
• 141M Modern Dance Technique And Theory I (3)
• 142B Ballet Technique And Theory II (3)
• 142M Modern Dance Technique And Theory II (3)
• 145C Men’s Class I (1)
• 213B Men’s Class II (1)
• 217A Improvisation I (1)
• 217B Improvisation II (1)
• 218A Composition I (2)
• 218B Composition II (2)
• 241B Ballet Technique And Theory III (3)
• 241M Modern Dance Technique And Theory III (3)
• 242B Ballet Technique And Theory IV (3)
• 242M Modern Technique And Theory IV (3)
• 250 Labanotation I (2)
• 260 Jazz I (1)
• 261 Jazz II (1)
• 301 Advanced Movement Analysis For Dancers (3)
• 303 Fundamentals Of Body Alignment (1)
• 305 Pilates (1)
• 306 History Of Dance I (3)
• 307 History Of Dance II (3)
• 310A Men’s Bassoon I (1)
• 310B Men’s Bassoon II (1)
• 313A Partnering/Pas De Deux I (1)
• 313B Partnering/Pas De Deux II (1)
• 314A Performance Techniques I (1)
• 314B Performance Techniques II (1)
• 314C Composition III (2)
• 314D Composition IV (2)
• 315B Ballet Technique And Theory V (3)
• 315M Modern Dance Technique And Theory V (3)
• 316B Ballet Technique And Theory VI (3)
• 316M Modern Dance Technique And Theory VI (3)
• 317A Modern Dance For Non-Majors (1)
• 317B Ballet Technique For Non-Majors I (1)
• 317C Modern Dance For Non-Majors II (1)
• 317D Modern Dance Repertory I (1)
• 317E Modern Dance Repertory II (1)
• 317F Advanced Pas De Deux I (3)
• 317G Advanced Pas De Deux II (3)
• 317H Men’s Variations I (1)
• 317I Variations I (1)
• 317J Variations II (1)
• 317K Performance Techniques III (1)
• 317L Performance Techniques IV (1)
• 317M Ballet Technique And Theory VII (3)
• 317N Modern Dance Technique And Theory VII (3)
• 317P Ballet Technique And Theory VIII (3)
• 317Q Modern Dance Technique And Theory VIII (3)
• 319A Senior Recital I (1)
• 319B Senior Recital II (1)
• 320C Modern Dance Technique And Theory (3)

BASSOON

• 100A Preparatory Applied Study (2)
• 100B Applied Study Of A Second Instrument (2)
• 100C Applied Study For The Non-Music Major (2)
• 101 Freshman Bassoon I (2-4)
• 101 Freshman Bassoon II (2-4)
• 201 Sophomore Bassoon I (2-4)
• 202 Sophomore Bassoon II (2-4)
• 301 Junior Bassoon I (2-4)
• 302 Junior Bassoon II (2-4)
• 401 Senior Bassoon I (2-4)
• 402 Senior Bassoon II (2-4)

CELLO

• 100A Preparatory Applied Study (2)
• 100B Applied Study Of A Second Instrument (2)
• 100C Applied Study For The Non-Music Major (2)
• 100D Applied Study For The Non-Music Major (2)
• 101 Freshman Cello I (2-4)
• 101 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

• 100A Preparatory Applied Study (2)
• 100B Applied Study Of A Second Instrument (2)
• 100C Applied Study For The Non-Music Major (2)
• 100D Applied Study For The Non-Music Major (2)
• 101 Freshman Clarinet I (2-4)
• 101 Freshman Clarinet II (2-4)
• 201 Sophomore Clarinet I (2-4)
• 202 Sophomore Clarinet II (2-4)
Euphonium

- 100A Preparatory Applied Study (2)
- 100B Applied Study Of A Second Instrument (2)
- 100C Applied Study For The Non-Music Major (2)
- 100D Applied Study For The Non-Music Major (1)
- 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

- 100A Preparatory Applied Study (2)
- 100B Applied Study Of A Second Instrument (2)
- 100C Applied Study For The Non-Music Major (2)
- 100D Applied Study For The Non-Music Major (1)
- 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

- 100A Preparatory Applied Study (2)
- 100B Applied Study Of A Second Instrument (2)
- 100C Applied Study For The Non-Music Major (2)
- 100D Applied Study For The Non-Music Major (1)
- 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)
- 401 Senior Guitar I (2-4)
- 402 Senior Guitar II (2-4)
- 403 Senior Guitar II (Jazz) (2)

Harp

- 101 Freshman Harp I (1-4)
- 201 Sophomore Harp I (1-4)
- 202 Sophomore Harp II (1-4)
- 301 Junior Harp I (1-4)
- 302 Junior Harp II (1-4)
- 401 Senior Harp I (1-4)
- 402 Senior Harp II (1-4)

Harpichord

- 100A Preparatory Applied Study (2)
- 100B Applied Study Of A Second Instrument (2)
- 100C Applied Study For The Non-Music Major (2)
- 101 Freshman Harpichord I (2-4)
- 102 Freshman Harpichord II (2-4)
- 201 Sophomore Harpichord I (2-4)
- 202 Sophomore Harpichord II (2-4)
- 301 Junior Harpichord I (2-4)
- 302 Junior Harpichord II (2-4)
- 401 Senior Harpichord I (2-4)
- 402 Senior Harpichord II (2-4)

Horn

- 100A Preparatory Applied Study (2)
- 100B Applied Study Of A Second Instrument (2)
- 100C Applied Study For The Non-Music Major (2)
- 100D Applied Study For The Non-Music Major (1)
- 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

- 100A Preparatory Applied Study (2)
- 100B Applied Study Of A Second Instrument (2)
- 100C Applied Study For The Non-Music Major (2)
- 100D Applied Study For The Non-Music Major (1)
ORGAN
100A Preparatory Applied Study (2)
100B Applied Study Of A Second Instrument (2)
100C Applied Study For The Non-Music Major (2)
100D Applied Study For The Non-Music Major (1)
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
100A Preparatory Applied Study (2)
100B Applied Study Of A Second Instrument (2)
100C Applied Study For The Non-Music Major (2)
100D Applied Study For The Non-Music Major (1)
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 II (2-4)
401 Senior Percussion I (2-4)
402 Senior Percussion II (2-4)

PIANO
100A Preparatory Applied Study (2)
100B Applied Study Of A Second Instrument (2)
100C Applied Study For The Non-Music Major (2)
100D Applied Study For The Non-Music Major (1)
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)

SAXAPHONE
100A Preparatory Applied Study (2)
100B Applied Study Of A Second Instrument (2)
100C Applied Study For The Non-Music Major (2)
100D Applied Study For The Non-Music Major (1)
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
100A Preparatory Applied Study (2)
100B Applied Study Of A Second Instrument (2)
100C Applied Study For The Non-Music Major (2)
100D Applied Study For The Non-Music Major (1)
101 Freshman String Bass I (2-4)
101J Freshman String Bass I (Jazz) (2)
102 Freshman String Bass II (2-4)
102J Freshman String Bass II (Jazz) (2)
201 Sophomore String Bass I (2-4)
201J Sophomore String Bass I (Jazz) (2)
202 Sophomore String Bass II (2-4)
202J Sophomore String Bass II (Jazz) (2)
301 Junior String Bass I (2-4)
301J Junior String Bass I (Jazz) (2)
302 Junior String Bass II (2-4)
302J Junior String Bass II (Jazz) (2)
401 Senior String Bass I (2-4)
401J Senior String Bass I (Jazz) (2)
402 Senior String Bass II (2-4)
402J Senior String Bass II (Jazz) (2)
### Trombone
- **100A** Preparatory Applied Study (2)
- **100B** Applied Study Of A Second Instrument (2)
- **100C** Applied Study For The Non-Music Major (2)
- **100D** Applied Study For The Non-Music Major (1)
- **101** Freshman Trombone I (2-4)
- **101J** Freshman Trombone I (Jazz) (2)
- **102** Freshman Trombone II (2-4)
- **102J** Freshman Trombone II (Jazz) (2)
- **201** Sophomore Trombone I (2-4)
- **201J** Sophomore Trombone I (Jazz) (2)
- **202** Sophomore Trombone II (2-4)
- **202J** Sophomore Trombone II (Jazz) (2)
- **301** Junior Trombone I (2-4)
- **301J** Junior Trombone I (Jazz) (2)
- **302** Junior Trombone II (2-4)
- **302J** Junior Trombone II (Jazz) (2)
- **401** Senior Trombone I (2-4)
- **401J** Senior Trombone I (Jazz) (2)
- **402** Senior Trombone II (2-4)
- **402J** Senior Trombone II (Jazz) (2)

### Trumpet
- **100A** Preparatory Applied Study (2)
- **100B** Applied Study Of A Second Instrument (2)
- **100C** Applied Study For The Non-Music Major (2)
- **100D** Applied Study For The Non-Music Major (1)
- **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)
- **368** Orchestral Literature for Trumpet (1)
- **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
- **100A** Preparatory Applied Study (2)
- **100B** Applied Study Of A Second Instrument (2)
- **100C** Applied Study For The Non-Music Major (2)
- **100D** Applied Study For The Non-Music Major (1)
- **101** Freshman Tuba I (2-4)
- **101J** Freshman Tuba I (Jazz) (2)
- **201** Sophomore Tuba I (2-4)
- **201J** Sophomore Tuba I (Jazz) (2)
- **202** Sophomore Tuba II (2-4)
- **202J** Sophomore Tuba II (Jazz) (2)
- **301** Junior Tuba I (2-4)
- **301J** Junior Tuba I (Jazz) (2)
- **302** Junior Tuba II (2-4)
- **401** Senior Tuba I (2-4)
- **401J** Senior Tuba I (Jazz) (2)
- **402** Senior Tuba II (2-4)

### Viola
- **100A** Preparatory Applied Study (2)
- **100B** Applied Study Of A Second Instrument (2)
- **100C** Applied Study For The Non-Music Major (2)
- **100D** Applied Study For The Non-Music Major (1)
- **101** Freshman Viola I (2-4)
- **101J** Freshman Viola I (Jazz) (2)
- **201** Sophomore Viola I (2-4)
- **201J** Sophomore Viola I (Jazz) (2)
- **202** Sophomore Viola II (2-4)
- **202J** Sophomore Viola II (Jazz) (2)
- **301** Junior Viola I (2-4)
- **301J** Junior Viola I (Jazz) (2)
- **302** Junior Viola II (2-4)
- **401** Senior Viola I (2-4)
- **401J** Senior Viola I (Jazz) (2)
- **402** Senior Viola II (2-4)

### Violin
- **100A** Preparatory Applied Study (2)
- **100B** Applied Study Of A Second Instrument (2)
- **100C** Applied Study For The Non-Music Major (2)
- **100D** Applied Study For The Non-Music Major (1)
- **101** Freshman Violin I (2-4)
- **101J** Freshman Violin I (Jazz) (2)
- **201** Sophomore Violin I (2-4)
- **201J** Sophomore Violin I (Jazz) (2)
- **202** Sophomore Violin II (2-4)
- **202J** Sophomore Violin II (Jazz) (2)
- **301** Junior Violin I (2-4)
- **301J** Junior Violin I (Jazz) (2)
- **302** Junior Violin II (2-4)
- **401** Senior Violin I (2-4)
- **401J** Senior Violin I (Jazz) (2)
- **402** Senior Violin II (2-4)

### Voice
- **100A** Preparatory Applied Study (2)
- **100B** Applied Study Of A Second Instrument (2)
- **100C** Applied Study For The Non-Music Major (2)
- **101** Freshman Voice I (2-4)
- **101J** Freshman Voice I (Jazz) (2)
- **201** Sophomore Voice I (2-4)
Nursing, School of

SCHOOL OF NURSING

Health Sciences Building  
Hospital Hill Campus  
2464 Charlotte Street  
(816) 235-1700  
Fax: (816) 235-1701  
nurses@umkc.edu  
http://www.umkc.edu/nursing/

Mailing Address  
University of Missouri-Kansas City  
School of Nursing  
2464 Charlotte Street  
Kansas City, MO 64108

Dean:  
Lora Lacey-Haun

Associate Dean for Academic Programs:  
Thad Wilson

Associate Dean for Research and Scholarship:  
Tina Hines

Assistant Dean for Student Affairs:  
M. Joy Roberts

History

In 1973-74, a graduate nursing program was started under the aegis of the School of Graduate Studies. On Nov. 16, 1979, the Board of Curators approved a proposal to establish a school of nursing at the University of Missouri-Kansas City. In 1981, following a developmental period, two new curricula were implemented. These were an upper-division baccalaureate degree for registered nurses and a 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 St. 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 received by Feb. 1. Applicants who wish to enroll for the spring semester should have all application materials received by Sept. 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

Other funds may be available for students demonstrating financial need. Applications for nursing scholarships are considered after submission of the FAFSA. Priority deadline for that submission is March 1. Further information about applications and qualifications for any of these funds may be obtained from the School of Nursing Student Services Office, room 1410, 2464 Charlotte Street, Kansas City, MO 64108-2718.

International Students

The School of Nursing coordinates recruitment, retention and continuing advisement for nursing students from abroad in cooperation with the University’s Office of International Student Affairs. In addition to the English proficiency examination (TOEFL), all graduates of foreign schools of nursing must complete the Commission on Graduates of Foreign Nursing Schools (CGFNS) qualifying examinations. This will enable registered nurses applying to the School of Nursing to take the National Council Licensure Examinations (NCLEX) for licensure as a registered nurse in Missouri. Students who are registered nurses must also send official transcripts to the CGFNS to determine degree equivalencies. Information about specific requirements for admission and progression may
be obtained from the School of Nursing Student Services Office. The School of Nursing retains the right to assess the level of current clinical skills prior to enrollment in clinical coursework.

ORGANIZATIONS

Student Nurses Association
Membership in the Student Nurses Association (SNA) is automatic for all students admitted to and enrolled in the School of Nursing’s degree programs. Students admitted into pre-nursing are encouraged to attend all meetings. Officers and representatives to the school’s standing committees are elected annually. Council meetings and special events are held periodically throughout the academic year.

Sigma Theta Tau International, Lambda Phi Chapter
This international nursing honor organization is designed to recognize and encourage superior scholarship and leadership achievements in nursing. Students are eligible for consideration as junior and senior undergraduate students and as continuing graduate students. Membership, based on scholarship, is by invitation only. The induction of new members is held each spring.

Nursing Alumni Association
All students at the School of Nursing qualify for membership in the Nursing Alumni Association. Objectives of the alumni association are to provide mentoring to the student body and garner support for the school. Meetings are held periodically and officers are elected each spring by the Nursing Alumni Board.

PROGRAM CHANGES
The School of Nursing reserves the right to make changes in courses, degree requirements and course schedules without notice.

ACADEMIC REGULATIONS
Nursing students are expected to be familiar with policies and procedures specific to their level of study and to review these each semester for updates and changes. These can be found in the UMKC General Catalog and in the School of Nursing’s Policies and Procedures manual, which can be found at the “Policies” link on the School’s home page (http://www.umkc.edu/nursing). Students must also be familiar with the Nursing Honor Code found at http://nursing.umkc.edu/documents/honorcode.pdf.

Academic and Professional Behavior
Students in the School of Nursing abide by the University of Missouri Student Conduct Code (listed in the appendices of this catalog) and by the School of Nursing Honor Code found at http://nursing.umkc.edu/documents/honorcode.pdf. The Standards of Professional and Ethical Behavior detailed in the honor code have been developed to guide students who are enrolled at all levels with the UMKC-SON, including undergraduate and graduate students, and are designed to assure accountability for the professional and ethical standards of the nursing profession.

Academic Probation
The cumulative GPA for retention in the program is 2.75.

- Students will be placed on academic probation whenever their semester GPA falls below 2.75.
- Students on academic probation must remove the probationary status on their next enrolled semester.
- Students must maintain a 2.75 GPA each semester thereafter or they are automatically withdrawn from the School of Nursing.
- A student who receives a grade of C- or below in any nursing course must repeat the entire course and achieve a minimum grade of C.
- Students taking a nursing course must be placed on academic probation.
- Students will be allowed to re-enroll in clinical nursing courses on a space available basis.
- No student will be permitted to repeat a course more than once in an attempt to achieve a grade of C or better.
- A student who receives two course grades below C (regardless of whether in the same course or another nursing course) will be dismissed from the nursing program.

Advisement Policy
All students must meet with an academic adviser each semester to review their plan of study, to be certain all immunizations are current, and to be released in the system to be able to enroll. If a student is experiencing difficulty in academic, financial or professional matters, a faculty mentor will be assigned to assist the student.

Immunization/Confidentiality/AIDS Policy
Prior to enrollment in coursework, 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 or TdAP 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. students must also be able to meet minimum expectations for performance in clinical coursework and professional nursing. In addition they must submit a copy of their current RN license(s) which must not have any sanctions or revocations upon admission or during program tenure. Any infractions will result in immediate dismissal from the program.

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 Student Affairs 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 Student Affairs 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 or on the web at http://nursing.umkc.edu/forms.cfm .

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 coursework at the same level of competency as their peers who were not on leave.

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 nine hours for the minor must be earned at UMKC.

Undergraduate Graduation Requirement
Undergraduate students anticipating graduation from the School of Nursing program must successfully complete the undergraduate assessment examinations during the last semester of coursework.

SCHOOL OF NURSING (N) COURSES

- 101 Introduction To Nursing (2)
- 122 Anatomy & Physiology I (4)
- 123 Medical Terminology (1)
- 124 Drug Calculations (1)
- 130 Introduction To Holistic Health Care: Medicinal Plants and Herbs (1)
- 132B Introduction To Holistic Health Care: Energy Medicine (1)
- 130C Introduction To Holistic Health Care: Relaxation Techniques (1)
Pharmacy, School of

PHARMACY HOME PAGE

Health Sciences Building
Hospital Hill Campus
2464 Charlotte Street
(816) 235-1609
Fax: (816) 235-5190
(816) 235-1613 (Student Services)
Fax: (816) 235-5562 (Student Services)
pharmacy@umkc.edu
http://pharmacy.umkc.edu

Mailing Address
University of Missouri-Kansas City
School of Pharmacy
2464 Charlotte Street
Kansas City, MO 64108

Dean:
Robert W. Piepho
Associate Deans:
Wayne M. Brown
Mary L. Euler
Kathleen A. Stabella

GENERAL INFORMATION

History
Originally organized in 1885 as the Pharmaceutical Department of the University of Kansas City, the school was reorganized and reincorporated in 1898 as the Kansas City College of Pharmacy and Natural Science. In 1943, this forerunner of the present school joined the University of Kansas City as its third professional school.

When the University of Kansas City was incorporated into the University of Missouri System in 1963, the School of Pharmacy became the only state-supported pharmacy school in Missouri. In October 1985, the school observed its centennial celebration, commemorating 100 years of progress in pharmaceutical education, research and service.

The School of Pharmacy is a member of the American Association of Colleges of Pharmacy (AACP). The doctor of pharmacy program is accredited by the Accreditation Council for Pharmacy Education (ACPE). The most recent accreditation review was in 2003, when full accreditation was continued. The next on-site accreditation review will be during the 2009-10 academic year. Anyone interested can contact ACPE at http://www.acpe-accredit.org for more information. The bachelor of science and master of science degrees are accredited by North Central Association of Schools and Colleges.
### Degrees Offered

The School of Pharmacy offers programs leading to the advanced professional degree of doctor of pharmacy and the undergraduate-level bachelor of science in pharmaceutical sciences. The master of science in pharmaceutical sciences is the graduate-level degree. Emphasis areas available in the master’s degree program are pharmaceutics (including pharmaceutical technology and pharmacokinetics), pharmaceutical chemistry (including medicinal chemistry), pharmacology and toxicology. The School of Pharmacy participates in the Interdisciplinary Ph.D. program through the school of graduate studies with emphasis areas in pharmaceutical science and pharmacology.

The UMKC School of Pharmacy offers a Pharm.D. satellite program on the University of Missouri-Columbia (UMC) campus in conjunction with the School of Health Professions. The traditional (UMKC campus) and satellite Pharm.D. programs encompass five years of professional study after completion of the required pre-pharmacy coursework. Although students enrolled in the satellite program will be on the UMC campus, these students will be considered UMKC students. Students accepted into the satellite Pharm.D. program will complete the basic science and general education courses in traditional classroom settings on the Columbia campus whereas students accepted to the traditional program will complete coursework on the UMKC campus. Pharmacy specific courses offered on the UMKC campus will be transmitted via distance education technology from UMKC to students enrolled in the satellite program.

### Bachelor of Science in Pharmaceutical Science

The four-year bachelor of science in pharmaceutical sciences degree program is an undergraduate degree that does not prepare graduates for pharmacist licensure. Interest in developing a four-year baccalaureate degree program in pharmaceutical sciences was generated by the desire of the faculty to expand the educational base of the school in the health-related sciences and the projection that graduates of the bachelor of sciences in pharmaceutical sciences program will help meet current and future societal needs in these fields of study.

**Definition and General Description of the Program**

Schools of pharmacy, as well as schools of medicine, have traditionally focused on the medically related life sciences. While schools of medicine generally have not become involved in undergraduate education, schools of pharmacy have evolved professional programs producing pharmacists and pharmaceutical scientists in direct collaboration with colleges of arts and sciences. Pharmaceutical sciences represents, in one sense, the collective basic science that underlies pharmacy. Rooted in discovery and development of therapeutics, pharmaceutical scientists seek to identify and understand chemical, biochemical, pharmacological, toxicological and other fundamental processes necessary to define and sustain the desired therapeutic effect. Pharmaceutical science and pharmacy itself both clearly require early training in biology, chemistry and physics. While students in these more basic disciplines move on to increasingly specialized courses of study indigenous to those separate sciences, students of pharmaceutical sciences, or related life sciences, evolve in a course of study which continues to stress a cross-fertilization of ideas of fundamental biology and chemistry while focusing on the complexity and balance of living systems.

Students in the pharmaceutical sciences degree program will be broadly trained during the early stages of the curriculum in the arts, humanities and social sciences while achieving a broad early emphasis in the natural sciences and a later specialization within the chemical and pharmaceutical sciences. The program of study will sharpen their cognitive and affective skills consistent with other alternative programs at the UMKC campus. The structure, diversity and functional characterization of living systems will be studied, examined, and understood with emphasis on the nature of disease, the disease process, and the design and development of drugs and dosage forms.

**Career Applications**

Students in the B.S. in pharmaceutical sciences program will be prepared to begin specialized study at the graduate level in a number of pharmaceutical sciences. They may directly enter the work force in the biomedical or pharmaceutical industry and make a significant contribution to the health and well-being of society through the design and development of novel therapeutic agents or processes. More importantly, their understanding of the interactions between environ.

**Description of the Curriculum**

<table>
<thead>
<tr>
<th>Semester One</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 105</td>
<td>English Composition I</td>
</tr>
<tr>
<td>BIOC 105/106L</td>
<td>General Biology I</td>
</tr>
<tr>
<td>CHEM 211/211L</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>General Elective (U.S. Const.)</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15 <strong>Semester Two</strong></td>
</tr>
<tr>
<td>ENGL 110</td>
<td>English Composition II</td>
</tr>
<tr>
<td>BIOC 200/208L</td>
<td>General Biology II</td>
</tr>
<tr>
<td>CHEM 211/211L</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>General Electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>18 <strong>Semester Three</strong></td>
</tr>
<tr>
<td>MATH 210</td>
<td>Calculus w/Analytical</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Geometry</td>
</tr>
<tr>
<td>CHEM 321/321L</td>
<td>Organic Chemistry I</td>
</tr>
<tr>
<td>BIOC 200</td>
<td>Cell Biology</td>
</tr>
<tr>
<td>General Elective (U.S. Constitution)</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16 <strong>Semester Four</strong></td>
</tr>
<tr>
<td>PHARM 321</td>
<td>Pharmaceutical Calculations</td>
</tr>
<tr>
<td>CHEM 321/321L</td>
<td>Organic Chemistry II</td>
</tr>
<tr>
<td>PHYS 221</td>
<td>Physics w/Lab</td>
</tr>
<tr>
<td>Statistics*</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16 <strong>Semester Five</strong></td>
</tr>
<tr>
<td>PHARM 341</td>
<td>Medicinal Chemistry I</td>
</tr>
</tbody>
</table>

* The statistics course can be satisfied by successful completion of EDUC 5505 or MATH 215.
LSBIOC 365  Human Biochemistry I  3  
LSPHYS 399  Pharmacy Physiology I  3  
General Electives 6  
Total15  
Semester Six Hours  
PHARM 7344  Medicinal Chemistry II  3  
CHEM 341  Analytical Chemistry I  4  
LSBIOC 366  Human Biochemistry II  3  
LSPHYS 400  Pharmacy Physiology II  3  
General Elective (writing intensive)** 3  
Total16  
** Students must pass the Written English Proficiency Test (WEPT) prior to enrollment in the writing intensive elective.  
General CLEP credits may not be used to fulfill the mathematics, physics, or chemistry requirements.  

<table>
<thead>
<tr>
<th>Semester Seven</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHARM 7202  Pharmacoeconomics I</td>
<td>4</td>
</tr>
<tr>
<td>PHARM 7203  Pharmacodynamics</td>
<td>4</td>
</tr>
<tr>
<td>Pharmacy Capstone Course</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345L  Instrumental Analysis</td>
<td>3</td>
</tr>
<tr>
<td>400/5500 level Science Elective***</td>
<td>3</td>
</tr>
<tr>
<td>Total16</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester Eight Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHARM 7203  Pharmacoeconomics II</td>
<td>4</td>
</tr>
<tr>
<td>PHARM 7204  Pharmacokinetics</td>
<td>4</td>
</tr>
<tr>
<td>Biopharmaceutics</td>
<td>4</td>
</tr>
<tr>
<td>PHARM 7362  Pharmacology II</td>
<td>5</td>
</tr>
<tr>
<td>PHARM 7463  Toxicology</td>
<td>2</td>
</tr>
<tr>
<td>Pharmacy Capstone Course</td>
<td>2</td>
</tr>
<tr>
<td>Total17</td>
<td></td>
</tr>
</tbody>
</table>

*** This optional elective brings the credit hours to 129. This elective is not necessary to achieve the minimum credit hours for a UMKC baccalaureate degree, but it allows the student to select a 400- or 550-level course in chemistry or biology or a 7400- or 5500-level course in pharmacy.  

Students must complete the following general education requirements:  

- ENGL 110  English Composition I  
- ENGL 125  English Composition II  
- 3 credit hours of fine arts from:  
  - Art  
  - Art History  
  - Music  
  - Theatre  
- 3 credit hours of humanities course work from:  
  - Foreign Language  
  - Philosophy  
  - English  
  - Communication Studies  
- 6 credit hours of social and behavioral sciences from:  
  - Sociology  
  - Geography  
  - Criminal Justice  
  - Psychology  
  - Economics  
- One course covering the U.S. Constitution from:  
  - American History  
  - American Government  
- One public speaking course  
- 6 credit hours of higher order thinking courses from:  
  - Western Civilization  
  - Ancient History  
  - Philosophy  
  - Logic  
  - Cultural Anthropology  
- One 3 credit hour writing intensive course.  

Students are encouraged to work with their faculty advisor in planning their capstone course work. Students may choose to complete dual and/or double B.S. degrees in a related area. Students are also encouraged to seek out internship opportunities. Internship opportunities are usually a paid experience where a student can gain valuable, hands-on knowledge related to their program of study (Note: students may not obtain course credit through internships).  

**SCHOOL ACTIVITIES**

**Advising System**

On entry into the pharmacy program, each student is assigned a professional development adviser (PDA). The PDA acts as a mentor during the program. It is particularly important that students regularly meet with their PDA to ensure that they are meeting all requirements.  

The PDA’s role is to counsel and advise students, based on each student’s individual needs. If students are experiencing difficulties, whether academic, financial or personal, or if they would like more in-depth information about various facets of the curriculum or career alternatives, they should seek counsel from the PDA. The advisers are familiar with the various sources of assistance and will help students seek the best solution to their problems. Building a strong relationship with the PDA is strongly encouraged.  

**LIBRARIES**

The University Libraries provide the full spectrum of information services to support study and research in pharmacy. For additional information, consult the University Libraries section of this catalog.  

**STUDENT SERVICES**

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 Student Pharmacists (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 Student Pharmacists (ASP) at UMKC. Its purpose is to inform the student body, as well as the faculty and staff of student activities and achievements, announce available opportunities and report on developments affecting student life. It is a primary vehicle of communication within the school. Articles are welcomed from any student, student organization, faculty or staff member.

STUDENT ORGANIZATIONS

Academy of Managed Care Pharmacy (AMCP)
AMCP is the national professional society dedicated to the concept and practice of pharmaceutical care in managed health care environments. Its mission is to promote the development and application of pharmaceutical care in order to ensure appropriate health care outcomes for all individuals. Its sole purpose is to represent the views and interests of managed care pharmacy. The UMKC Chapter of AMCP members participate in programs such as Kansas City Antibiotic Taskforce (KART). The KART program teaches elementary school children about germ transfer and the importance of washing hands. Members also participate in pharmacy and therapeutics competitions at the national level. Membership in the organization helps to expose student pharmacists to the practice of managed care pharmacy.

Academy of Student Pharmacists (ASP)
This professional organization is the student branch of the American Pharmacists Association (APhA). ASP provides a means for pharmacy students to become involved at the state, regional and national levels in the pharmacy profession. Members annually send delegations to the regional and national meetings of the association. The UMKC ASP chapter has been recognized numerous times at regional and national levels for its many professional and service activities.

The local chapter acts as the student governing body for the School of Pharmacy and represents the pharmacy students in the campus Student Government Association. Membership is encouraged of all pharmacy students. Pre-pharmacy students also are eligible to join. Membership in ASP also includes subscriptions to several professional publications such as the Journal of the American Pharmacists Association, Pharmacists.com and the Missouri Pharmacist. In addition, membership entitles a student to discounts on books, malpractice insurance and car insurance.

Community Service is a major part of professional career development and outreach. Through nationally sponsored service projects like Operation Diabetes, Operation Immunization, Root For Health, and Heartburn Awareness students have a direct impact on the health of their community while promoting the role of the pharmacist. In addition UMKC's own sponsored Project Outreach allows students to reach out into the elementary schools and encourage positive life decisions.

ASP is not all work though. Its members reach across the borders and plan social events with neighboring schools of pharmacy to promote lasting relationships.

Student National Pharmaceutical Association (SNPNA)
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. SNPNA 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 open to all pharmacy students, that supports 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 the KE Directory of Pharmacy Students, Breast Cancer Awareness Month, Poison Prevention and a patient assistance program at the Jackson County Free Health Clinic. Individual members of KE also participate in service projects sponsored by ASP and UMKC.

Kappa Psi
This national professional pharmaceutical fraternity was founded in 1879 and offers membership to both men and women. The Gamma Theta Chapter of Kappa Psi was established at UMKC in 1957. Steeped in tradition, its purpose is to maintain the highest ideals of pharmacy through ethics, scholarship and fellowship. Many social and professional activities are planned each year with emphasis on campus and community service projects.

Phi Lambda Sigma
Phi Lambda Sigma is the national pharmacy leadership society which promotes the development of leadership in pharmacy, especially among pharmacy students. The society encourages participation in all pharmacy activities. Membership crosses fraternal and organizational lines to include pharmacy students, faculty, alumni and honorary members.

Student Society of Health-System Pharmacists (SSHP)
The Student Society of Health-System Pharmacists (SSHP) purpose shall be to provide students in the School of Pharmacy with an understanding of career opportunities in health-systems pharmacy; provide knowledge of the many preferred credentials for a career in health-systems pharmacy; and encourage participation in local, state, and national societies as a student and as a pharmacist after graduation. During the academic year, SSHP sponsors events to include residency information roundtables, clinical skill competition, and presenters from local, state and national organizations.

SCHOLARSHIPS, SPECIAL AWARDS AND FINANCIAL ASSISTANCE

The Dean's List
At the end of each semester, the names of full-time doctor of pharmacy and bachelor of science in pharmaceutical science students whose term GPA is 3.5 or higher are placed on the dean's list. These students receive a letter of congratulations and a notation is placed on their permanent records. Students must complete a minimum full-time program of 12 graded hours to qualify for the dean's list. The credit/no credit option may not be used as part of the 12 hours.

Degrees With Honors
Students who meet the academic standards prescribed by the faculty will be graduated "with honors." The criteria for Latin honors eligibility is as follows:

Pharm.D. Students

Summa Cum Laude
- Pharmacy GPA* greater than or equal to 3.750.
- No periods of probation
- No incidents of unprofessional behavior

No more than 5% of the graduating class will be awarded Summa Cum Laude honors. If more than 5% of the class qualifies under the criteria above, the GPA criteria will be raised and students below the revised GPA will be awarded their degrees with Magna Cum Laude honors.

Magna Cum Laude
- Pharmacy GPA* greater than or equal to 3.600.
Perrigo Award database, a subscription to the Natural Medicines Continuing Education series and a certificate.

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

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

The Natural Medicines Comprehensive Database Award

Mylan Pharmaceutical Excellence in Pharmacy Award

Merck Award

The Eli Lilly Company of Indianapolis, Ind., presents a trophy to a member of the graduating class for superior scholastic and professional achievement.

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

Facts & Comparisons Clinical Communication Award

Selection is made by the ASP Executive Board.

A certificate is presented by the American Pharmacists Association-Academy of Student Pharmacists to the graduating student who has done the most for the student branch of the association.

The American College of Apothecaries Award

An engraved silver bowl from the American College of Apothecaries. The graduating student who has shown outstanding scholastic achievement and participation in school activities.

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

Alumni Award

No periods of probation.

No incidents of unprofessional behavior.

No more than 10% of the graduating class will be awarded Cum Laude honors. If more than 10% of the class qualifies under the criteria above, the GPA criteria will be raised and students below the revised GPA will be awarded their degrees without Latin honors.

* GPA for Latin honors is the School of Pharmacy GPA on all courses completed at UMKC through the end of the 9th semester of the professional program.

Bachelor of Science in Pharmaceutical Sciences (BSPS)

Summa, Magna and Cum Laude Latin Honors decisions for BSPS students will be awarded based upon an average of the GPAs of students receiving the BSPS during the previous two years.

No more than 5% of the graduating class may be awarded the BSPS with Summa Cum Laude honors.

No more than 5% of the graduating class may be awarded the BSPS with Magna Cum Laude honors.

No more than 10% of the graduating class may be awarded the BSPS with Cum Laude honors.

Adjustments to the GPA minimums will be made if necessary in order not to exceed the maximum percentages. In addition, BSPS students must have had no periods of probation and no incidents of unprofessional behavior.

Graduation Awards Banquet

An annual awards recognition program is held at the end of the final term in conjunction with the doctor of pharmacy graduation banquet. At that time, recognition is given to graduating students for superior academic achievement, leadership, and service. Selection of the recipients, except where noted otherwise, is made by vote of the pharmacy faculty in conjunction with the scholarship and financial aid committee.

Achievers of Excellence Awards Ceremony

Each fall an awards ceremony is held to recognize those students in the School of Pharmacy who receive scholarships or awards from the school, the University or the school's constituent groups. Most of these awards are competitive and are confirmed by the scholarship and financial aid committee.

Student Leadership Recognition

Annually, student leaders are recognized for their efforts on behalf of the School and the University.

Doctor of Pharmacy Graduation Awards

Douglas Adcock Memorial Award

An annual cash award established in memory of Douglas Adcock, a 1977 graduate of the School of Pharmacy, is presented to a student who plans a career in the public health service or who exhibits the ability to overcome adversity with professionalism.

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 Student Pharmacists Mortar and Pestle Professionalism Award

An engraved plaque 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.

American Pharmacists Association Service Award

A certificate is presented by the American Pharmacists Association-Academy of Student Pharmacists to the graduating student who has done the most for the student branch of the association. Selection is made by the ASP Executive Board.

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.

First DataBank Medical Writing Award

An Evaluations of Drug Interactions loose leaf edition is presented to a graduating doctor of pharmacy student who has demonstrated excellence in medical writing.

GlaxoSmithKline Award

An 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 limited edition lithograph to a graduate in the top 20 percent of the class who exhibits exceptional skills in the area of drug information dissemination.

The Natural Medicines Comprehensive Database Award

Recognition is presented to the senior student who has shown an interest in the use of natural medicines. The recipient also must have proven academic and extracurricular activities demonstrating outstanding promise in the assessment, evaluation and delivery of patient care related to the use of natural medicines. The recipient receives a copy of the natural medicines comprehensive database, a subscription to the Natural Medicines Continuing Education series and a certificate.

Perrigo Award
The Perrigo Company of Allegan, Mich., awards a stipend and hand-engraved wall plaque to a graduating student in recognition of excellence in nonprescription medication studies.

Pharmacists Mutual Award
A gold-embossed reference book or one year of pharmacists liability insurance is presented by the Pharmacists Mutual Insurance Co. of Algonia, Iowa, to a graduate, based on academic achievement and professional pharmacy outlook.

Rho Chi Award
Honor is 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 the 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
Wright V. and Gladys A. Bartholomew Scholarship
This scholarship is awarded competitively to a Pharm.D. student entering the third semester of the professional program in the School of Pharmacy. The student must have expressed interest in entering community pharmacy practice after graduation. Pending satisfactory academic performance, this scholarship can be renewed for a maximum of four additional semesters.

Mary Bisceglia Memorial Scholarship
A gift was made by Bud Bisceglia, a 1953 alumnus, in memory of his wife, Mary, for a memorial scholarship. The Mary Bisceglia Memorial scholarship is awarded to a second- or third-year Pharm.D. student interested in community pharmacy practice.

Lewis Bratt Scholarship
This scholarship will be awarded to a student who has an interest in independent community pharmacy. Financial need will be taken into consideration.

G. Thomas Burns, R.Ph. Memorial Scholarship
Two scholarships will be disbursed to students in the UMKC School of Pharmacy who are eligible to receive financial aid and are in good standing academically. Preference will be made to applicants in their third, fourth or fifth year in the School of Pharmacy with an expressed interest in a career in an independent pharmacy with plans to practice in either the Missouri or Kansas metropolitan area following graduation. Student applicants for the Burns Memorial Scholarship who have a past working experience with the U.S. military and/or positive leadership involvement with the State, county or local legislature will also be given preference in the selection process.

Carthage Pharmacy Services, Inc. Scholarship
This scholarship shall be awarded to a student in the UMKC School of Pharmacy who demonstrates financial need, is eligible to receive financial aid and in good standing academically. Preference will be made to a student who is a high school graduate of Jasper, Lawrence, Green or Bates counties in the State of Missouri or Cherokee or Miami counties in the State of Kansas and also to a student who indicates a preference for a career in an independent pharmacy following graduation and/or a preference to work in one of the counties listed in the above criteria.

Century Club Grant
The UMKC Pharmacy Foundation awards this grant to a third-year Pharm.D. student who intends to practice in a hospital or other clinical setting.

CVS Community Pharmacy Scholarships
CVS awards scholarships to four Pharm.D. students entering the second professional year who plan to practice community pharmacy after graduation.

D & H Prescription Drug Store Scholarship
This scholarship will be awarded to a student in the UMKC School of Pharmacy satellite program located on the campus of the University of Missouri – Columbia with the following criteria:

a. Student is a high school graduate of Audrain, Boone, Cole, Cooper or Callaway counties in the State of Missouri
b. Student is a current Missouri resident
c. Student indicates a preference for a career in an independent pharmacy following graduation
d. Student is in the high need category for financial aid

Students may fit more than one of these criteria; if so, they are added together. Example: the student is from Boone County, MO and indicates a preference for a career in an independent pharmacy, they would then qualify for criteria (a) and (c) listed above.

Dean’s Advisory Council Scholarship
This scholarship shall be awarded to a professional pharmacy student in their third, fourth or fifth year who demonstrates extraordinary leadership qualities. Preference shall be given to a student who has held an elected office while in pharmacy school or has developed an innovative service project. Financial need should be taken into consideration.

Lewis D. DeClerck Memorial Scholarship
This scholarship is awarded competitively to a Pharm.D. student entering the third semester of the professional program in the School of Pharmacy. The student must have expressed interest in a career in an independent pharmacy with plans to practice in either the Missouri or Kansas metropolitan area. Preference will be given to a Pharm.D. student who has held an elected office while in pharmacy school or has developed an innovative service project. Financial need should be taken into consideration.

Leslie Eisenbrandt Scholarship
A stipend is awarded to a second-year Pharm.D. student who ranks in the top 10 percent of the class and who exhibits leadership qualities.

Erickson Family Scholarship
Preference for this award will be given to a student who is a direct descendant of J. Stephen Erickson and/or K. Clydean Erickson and/or their brothers or sisters; employed by The Drug Store of Cameron, Missouri and from a town of less than 20,000 in population or is employed by a privately held (independent) pharmacy company. Applicants must have a letter of recommendation from a currently employed pharmacist of The Drug Store of Cameron, Missouri.

Fendler Family Scholarship
One scholarship will be disbursed each year to a student in the School of Pharmacy who is eligible to receive financial aid and is in good standing academically. Preference will be made to a minority applicant who is an entering first year professional degree student with demonstrated leadership experience and significant financial need.

Kathy McClary Fife Memorial Scholarship
This scholarship was established in memory of Kathy McClary Fife, a 1975 alumnus, by her brother Bert McClary (class of 1966) and family. It is awarded to a student who applies for admission to and attends the University of Utah School on Alcoholism and Other Drug Dependencies summer program, to help defray the expenses of attending the program. The recipient is selected by Mr.
McClary and the Executive Director of the Pharmacy Foundation.

**Spencer S. Glenn Memorial Scholarship**

In memory of Spencer S. Glenn, a scholarship recognizing the superior pursuits of a doctor of pharmacy student with a record of clinical research abilities and academic achievement was established. Selection preference is given to married students who are U.S. citizens and Missouri residents.

**The Glenski Family Scholarship**

An award is presented to a doctor of pharmacy student in years three through five of the professional pharmacy curriculum who has maintained a cumulative School of Pharmacy GPA of 3.0. The student must be involved in extracurricular activities with a community service emphasis. Preference will be given to a student who has a family member who is either in a health-care profession or is a UMKC alumni.

**Good Neighbor Pharmacy Community Scholarship**

Eight student scholarships will be disbursed to students within the School of Pharmacy who are eligible to receive financial aid and are in good standing academically. Preference will be made to applicants in their 4th and 5th years of Pharmacy School with a demonstrated interest in community pharmacy and plans to practice in either Missouri or Kansas following graduation. A letter of reference for each student applicant from a local community or independent pharmacist will be required as part of the student’s scholarship application.

**Travis and Maqual Graham Scholarship**

One student scholarship will be disbursed each year to a fourth or fifth year Pharm.D. student interested in obtaining clinical post-doctoral training, who is in good academic standing, and is involved in community healthcare initiatives. The recipient must also be eligible to receive financial aid in the current academic year.

**Greater Kansas City Society of Health-System Pharmacists (GKCSHP) Book Scholarship**

This scholarship is awarded by the GKCSHP to a second-year doctor of pharmacy student who plans to pursue a career in hospital pharmacy.

**George Guastello Scholarship**

This scholarship was established in 1996 by the Guastello family and recognizes a deserving fourth or fifth year pharmacy student interested in practicing in a community pharmacy setting. Applicants’ financial need will be considered.

**Harvey H. Haynes Scholarship**

This scholarship shall be awarded to a third-year pharmacy student planning to work in an independent pharmacy in a rural area with a population less than 10,000. Financial need is not a consideration.

**Bruce J. “Bud” Huber Memorial Scholarship**

This is scholarship for a Pharm.D. student in years two through five who has a minimum cumulative GPA of 3.0 and documented involvement in extracurricular activities in the area of service. Priority should be given to a pharmacy technician or intern of Express Pharmacy, or to an older, returning student. Financial need is considered.

**Richard D. Johnson Undergraduate Pharmaceutical Sciences Award**

This scholarship 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.

**Kilgore’s Medical Pharmacy Scholarship**

The recipient of this scholarship must be in the high category for financial aid. The recipient must be enrolled in the Pharm.D. satellite program on the University of Missouri-Columbia campus. Preference shall be given to students who graduated from a high school in Boone, Cole, Moniteau, Cooper, Howard, Randolph, Audrain, or Callaway counties in Missouri.

**Kavanaugh Charitable Trust Scholarship**

This scholarship shall be awarded to a doctor of pharmacy student based on evidenced financial need.

**Rocky and Laurie Levell Scholarships**

These scholarships shall be awarded to two Pharm.D. students who are eligible to receive financial aid and are in good standing academically. Each student should demonstrate a compassionate attitude toward others and be involved in extracurricular activities in the community. Preference will be given to students with an interest in geriatric care who plan to practice in an independent or community pharmacy upon graduation.

**Lindman-Gershman Scholarship**

A scholarship for a student in the doctor of pharmacy program with financial need.

**Alexander and Mary Margolis and Bernard A. Margolis Perpetual Memorial Fund**

A bequest through the estate of Bernard A. Margolis was established in 1994 for a worthy pharmacy student enrolled in years one through five of the professional program who has financial need.

**J. Leo McMahon Grant**

A stipend is awarded to a second professional year student who represents the caring and professional attitudes of Leo McMahon.

**Joe McNerney Pharmacy Leadership Scholarship**

This award is given to any female or minority doctor of pharmacy student or pre-pharmacy student with anticipated entry into the Pharm.D. program who has demonstrated leadership abilities. Financial need should be taken into consideration.

**Medicine Shoppe International Scholarship**

Doctor of pharmacy students with an interest in community pharmacy or community oriented extracurricular activities may receive this scholarship. This award is not given every year.

**Mid-Missouri Society of Health-System Pharmacists Scholarship**

This scholarship will be awarded to a student in the UMKC School of Pharmacy satellite program located on the University of Missouri-Columbia campus based on a point system. Points are assigned by the following criteria: a student who is a member of the Mid-Missouri Society of Health-Systems Pharmacists; student is presently employed by a health-systems pharmacy; student is a high school graduate of Boone, Cole, Cooper or Callaway counties in the state of Missouri; student is currently a Missouri resident and student should be in the high need category for financial aid. Student may re-apply and receive the award for more than one year.

**Missouri Pharmacy Foundation Scholarship**

The Missouri Pharmacy Foundation provides a scholarship to a third-year Pharm.D. student who is a Missouri resident. The recipient should be on track with his or her class and have maintained a minimum cumulative 2.5 GPA during the first two years of the pharmacy program. The recipient should be planning a career in Missouri and have demonstrated involvement in his or her community.

**Tim Mitchell Scholarship**

This scholarship shall be awarded to an active UMKC National Community Pharmacists Association student member in their third, fourth, or fifth professional year in the Pharm.D. program. The student must be in good standing.

**Timothy G. Mitchell Scholarship**

This scholarship is awarded to one Pharm.D. student in the second through fifth year in good academic and professional standing. The student must have a stated career interest in community
A stipend is awarded to a doctor of pharmacy student in years 3-5 who has financial need. Preference is given to a student from Joplin or Southwest Missouri.

Kit Ngoc Nguyen, Pharm.D. Scholarship

One student scholarship will be disbursed each year to a student at the UMKC School of Pharmacy who is eligible to receive financial aid and is in good standing academically. Preference will be made to students who demonstrate financial need and plan to practice in an independent or community pharmacy upon graduation. It is intended that the recipient use this scholarship for purchasing books or other needed supplies.

Nyberg Pharmacy Independent Pharmacy Scholarship

An award is made available to a doctor of pharmacy student, regardless of practice interests or year in school, who maintains a minimum 2.5 GPA and is a Missouri resident. Financial need is considered. This award not given every year.

Owen Healthcare Scholarship

A matching fund program through Owen employee donations to provide a scholarship for a top academically ranked second- or third-year pharmacy student with financial need. This award is not awarded every year.

Ozark Society of Health-System Pharmacists Award

Awarded to a full-time student enrolled in years three through five of the doctor of pharmacy program who has a 3.0 GPA or higher. Preference will be given to students from the Southwest Missouri area (Vernon, Barton, Jasper, Newton, McDonald, Barry, Lawrence, Dade, Cedar, Polk, Greene, Christian, Stone, Taney, Ozark, Douglas, Webster, Wright, Texas, Howell, Dallas and Laclede counties).

PBA Health / TrueCare Pharmacy Scholarships

PBA Health/TrueCare Pharmacy, the Midwest’s first interdependent chain of independent pharmacists, awards scholarships to deserving doctor of pharmacy students in the last three years of the curriculum. Students must have a minimum of 500 intern hours in independent pharmacy and a minimum 2.5 GPA.

Pharmacists Mutual Scholarship Award

This scholarship is awarded annually by the Pharmacists Mutual Insurance Co. of Aligona, Iowa, to a second-year doctor of pharmacy student who intends to practice pharmacy in a community setting after graduation.

Pharmacy Foundation Memorial Scholarship

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.

Powers Family Scholarship

This scholarship shall be awarded to a professional pharmacy student in their 3rd, 4th or 5th (P4, P5 or P6) with a minimum 2.5 GPA. Preferences shall be given to a student who indicates as their first choice a career in independent/community pharmacy and who has served an internship with an independent pharmacy. It is also requested that the student applicant’s letter of reference come from an independent pharmacist.

Prescription Solutions Scholarship

Two student scholarships will be disbursed to students in the UMKC School of Pharmacy who are eligible to receive financial aid and are in good standing academically. Preference will be made to applicants in their 4th and 5th years in the School of Pharmacy with a demonstrated interest in a career with a mail order pharmacy and managed care with plans to practice in either Missouri or Kansas following graduation. A letter of reference for each student applicant from a pharmacist will be required as part of the student’s scholarship application.

The RAN Institute Award

Awarded to a female pharmacy student who has demonstrated an interest in and documented activities of strong entrepreneurial ambitions, active involvement in UMKC athletic programs and financial need.

Red Cross Pharmacy Scholarship

Preference for this award will be given to a student who is: a direct descendant of Benjamin R. Hartwig, employed by Red Cross Pharmacy and/or from a Red Cross Pharmacy market area, from a town of less than 20,000 in population, or is employed by a privately held (independent) pharmacy company. Each applicant must have a letter of recommendation from a currently employed pharmacist of Red Cross Pharmacy.

Stanley M. Reinhaus Family Foundation Scholarship

Second-year doctor of pharmacy students with a minimum 2.75 GPA may apply for this award. Applicants must be interested in hospital or community pharmacy, be a Missouri resident and plan to work in Missouri after graduation with no plans of pursuing an advanced degree. Applicants must have financial need. The award is renewable.

Toni Sena Memorial Scholarship

This scholarship shall be awarded to a student in the Pharm.D. program with a minimum 2.5 GPA and to a student who shows evidence of an earnest pursuit of a pharmacy degree.

The Joseph G. Shalinsky Scholarship

This scholarship was established in 1996 by the family of Joseph G. Shalinsky. The scholarship recipient must have achieved academic success (minimum 3.0 cumulative GPA), and an interest in practicing in a community pharmacy setting after graduation. Applicants' significant financial need should be demonstrated.

Leo Shalinsky Scholarship

The recipient of the award should be a second- or third-year Pharm.D. pharmacy student interested in practicing in a retail pharmacy. The applicant must have a minimum 2.5 GPA average, be involved in extracurricular activities and have a financial need.

Morris R. Shlensky Award

The Morris R. Shlensky award was originally made available through officers of the Katz Drug Co., (now CVS), specifically for professional pharmacy students. Financial need or high scholastic achievement should be demonstrated. The award is renewable for one additional semester.

William and Carole Stittland Scholarship

One student scholarship will be disbursed each year to a third, fourth or fifth year student at the UMKC School of Pharmacy who is eligible to receive financial aid and is in good standing academically. Preference will be made to students who demonstrate the personal characteristics of integrity, a strong work ethic, generosity of spirit and a commitment to quality in all that they do for the profession of pharmacy. Special consideration will be given to students who also demonstrate excellent verbal and written communication skills.

Smock Family Scholarship

This scholarship shall be awarded to a third, fourth or fifth year student that currently is in good standing, currently obtains the bulk of his/her academic funding through financial aid programs, and
who has an interest in community or independent pharmacy practice.

**The Anthony J. Spalitto, Sr. Scholarship**

Awarded to a doctor of pharmacy student in years two through four who has a minimum 2.5 GPA and has expressed interest in independent community pharmacy. Financial need will be taken into consideration.

**Bruce and Shirley Stocker Scholarship**

The applicant for this scholarship, established in 2000, must be either a Missouri or Kansas full-time resident in years one through five of the professional pharmacy program. The applicant must have maintained a minimum 3.0 GPA, have expressed an interest in pursuing a career in institutional pharmacy and be or planning to be involved in the appropriate professional pharmacy organizations (i.e., MSHP, KSHP, ASHP). Financial need will be taken into consideration.

**David A. Strauch, R.Ph. Scholarship**

One or two student scholarship(s) will be disbursed each year to a 1st through 4th year student(s) in the UMKC School of Pharmacy who demonstrates financial need, who is in good academic standing and shows evidence of leadership experience. Preference will be given to a student wishing to pursue a career with an independent pharmacy and/or in a community of less than 10,000 people following graduation. The student must be eligible to receive financial aid in the current academic year.

**Evelyn F. Suffecool/Esther C. Plank Scholarships**

The funds of the Evelyn F. Suffecool and Esther C. Plank endowments will be used to award scholarships to Pharm.D. students.

**Harry N. Tisch 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. Tisch, a 1964 alumnus.

**Fred Tonnies Scholarship**

This scholarship shall be awarded to a doctor of pharmacy student based on a point system. Points are assigned by the following criteria: a student who is a graduate of a high school in Boone County, Mo., is a past or current employee at the University of Missouri-Columbia Hospitals & Clinics, minimum cumulative 3.6 GPA and financial need.

**Phyllis Vaughn Scholarship**

This scholarship will be awarded to a doctor of pharmacy student in the second through fifth year of the professional pharmacy program who expresses a caring and friendly attitude toward others. Preference will be given to a student who exemplifies this attitude through involvement in extracurricular activities helping people. Financial need will be taken into consideration.

**Walgreens Student Scholarship**

This is an annual award to a pharmacy student entering their final professional year. The student should have demonstrated outstanding leadership and communication skills and have an interest in community pharmacy practice.

**Wal-Mart Scholarship**

The Wal-Mart Corporation awards this scholarship to a fourth- or fifth-year Pharm.D. student who has an interest in pursuing a career in community pharmacy and who has demonstrated leadership qualities and high scholastic standing. Financial need should be considered.

**Mathew W. “Bill” Wilson Scholarship**

In honor of 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, minimum cumulative 3.6 GPA and financial need.

**Lawrence G. Windmoeller / Mid-Missouri Society of Health-System Pharmacists Scholarship**

The Windmoeller/MMSSH Scholarship will be awarded to a student in UMKC School of Pharmacy satellite program with the following criteria:

a. Student is a member of the Missouri Society of Health-Systems Pharmacists
b. Student is presently employed by a health-systems pharmacy
c. Student is a high school graduate of Boone, Cole, Cooper or Callaway counties in the state of Missouri
d. Student is currently a Missouri resident
e. The student should be in the high need category for financial aid.

Students may fit more than one of these criteria; if so, they are then added together. Example: the student is from Columbia, Mo., works at a health-system pharmacy, and is a member of MSHP; they would then qualify for criteria (a), (b) and (c) listed above.

**Other Financial Assistance and Awards**

**American Institute for the History of Pharmacy Certificate**

This award recognizes and encourages superior achievement in pharmacohistorical study or activity by a pharmacy student.

**Gracia Bremer Loan Fund**

An endowment through the unitrust of Gracia Bremer and Mercantile Bank was established in 1996 for pharmacy students enrolled in years one through five of the first professional program who need additional financial support while pursuing a pharmacy degree.

**George H. Hargrave Pharmacy Student Loan Fund**

An endowment through the unitrust of George H. and Edith L. Hargrave was established in 1994 for pharmacy students enrolled in years one through five of the first professional program who need additional financial support while pursuing a pharmacy degree.

**Kmart Scholarship**

Second- or third-professional-year Pharm.D. students with an interest in pursuing a career in community pharmacy and who are employed by Kmart as a summer intern are eligible for the Kmart Scholarship. A special application is required and can be obtained through the Kmart Corp.

**Facts & Comparisons Scholarship for Postgraduate Study in Drug Information**

This $2,500 scholarship is awarded to a Pharm.D. candidate entering the last year of the program who is interested in pursuing advanced training in drug information pharmacy practice.

**Searle Fellowships in Pharmacy**

First-, second- and third-place awards beginning at $7,500 are awarded to Pharm.D. candidates entering the last year of the program who show leadership potential, professional development and educational achievement.

**UNITED DRUGS Scholarship Program**

A scholarship for a fourth- or fifth-year doctor of pharmacy student involved in pharmacy related student affairs and service to the community, preferably in a leadership capacity. The qualified student must have a minimum overall 2.5 GPA and an interest in independent pharmacy practice.
ACADEMIC REGULATIONS AND REQUIREMENTS

Class Attendance
Regular attendance at classes is strongly recommended for students to progress satisfactorily through the pharmacy curriculum. Required attendance, however, is left to the discretion of the individual instructor. Students are responsible for familiarizing themselves with all course requirements and assignments.

Students are to report absences to instructors as outlined in individual course policies (e.g., syllabus, course outline). Absences for official school or University activities will be handled through the dean's office. The dean's office must be notified prior to the event or activity. In either event, any notice sent to instructors is for purposes of information only and does not relieve students of any responsibilities for completing work missed in their absence or non-adherence to individual course policies.

Absences from Scheduled Examinations
Unless specified otherwise on the course syllabus, students may be excused from a scheduled examination if they notify the school of their absence in advance of the examination and present a statement from their private physician confirming their illness on their return. The manner in which a justified absence from an examination will be made up will be determined by the course instructor. Instructors do reserve the right to hold examinations outside of regularly scheduled class times. Such examinations will be noted in the University schedule of classes.

Students will not be given an opportunity to make up an unexcused absence from an examination, and their scores shall be recorded as zero for a numerically scored exam and F for a letter-graded examination.

The only exceptions to this rule shall be when the student's absence is traumatic in nature (e.g., automobile accident, sudden death in family, etc.) or when prior arrangements have been made with the course instructor.

Immunizations
Adequate protection for students and patients against certain diseases requires standard immunizations. Submission of immunization certificates are a condition of acceptance and must be on file in the Office of Experiential Programs prior to taking part in the first Academic Service Learning experience and must remain current through the last advanced pharmacy practice experience rotation. Students are required to have:
- The three-injection series of the Hepatitis B vaccination.
- Vaccination against or proof of chicken pox immunity.
- Two MMR (measles, mumps, rubella) vaccinations.
- A yearly tuberculin skin test (a chest x-ray is required if skin test is positive) completed as a condition of advancement.
- Additional tests may be required.

Newly enrolled students will receive information regarding immunization provider options at orientation.

Academic Loads
All coursework in the pharmacy curriculum is sequential and success depends upon the instruction and content from the previous semester and builds upon knowledge needed for subsequent semesters. Pharmacy students must enroll for the total program as outlined for each semester in the most current version of the curriculum.

Exceptions to Pharmacy Curriculum
Students are expected to satisfactorily complete all required courses and noncredit requirements in the pharmacy curriculum. Any exception to the normal curriculum must be approved by the school's Committee on Admissions and Academic Requirements. For a student to be excused from any of the required courses, a petition for exception must be submitted to the committee for its consideration at least one month prior to the start of the semester for which the exception is being requested.

Academic Probation
Doctor of Pharmacy students are placed on academic probation if they receive any of the following:
- Less than a 2.0 term or cumulative grade point average (GPA).

To remove themselves from probation, students must receive not less than a 2.0 term GPA and must raise their cumulative GPA above 2.0 in the next academic semester.

All such cases of probation will be reviewed by the Committee on Admissions and Academic Requirements to determine the reasons for the unsatisfactory progress.

Academic Dismissal
Doctor of Pharmacy students are considered ineligible to progress in the Pharm.D. program under any of the following conditions:
- Receipt of a D, F, WF, or No Credit grade in any coursework in a single semester.
- Receipt of less than a 2.0 term GPA while on academic probation.
- Placement on academic probation for more than two non-consecutive terms.
- Receipt of two consecutive terms of less than a 2.0 cumulative GPA.

All such cases of ineligibility will be reviewed by the school's dean or designee to determine the reasons for the unsatisfactory progress. The dean or designee will then either propose a program whereby the student might make up the deficiencies or recommend termination.

If a student's petition for readmission is approved, the student must sign an agreement for the program proposed by the dean or designee to correct the deficiencies and will be governed by the signed agreement until the conditions stipulated in it have been satisfactorily met.

First Professional Year students who become academically ineligible to continue at the end of the first semester may not petition for re-admission and must reapply to the Pharm.D. program through the regular admission process.

Students who withdraw from required coursework are ineligible to continue in the regular curriculum unless course equivalents can be completed during the summer term. A student who withdraws from a required course will not be allowed to matriculate to the next semester.

All students are given the terms governing academic performance on entering the School of Pharmacy.

Student Conduct
All students entering the School of Pharmacy receive a copy of the University of Missouri Student Conduct Code. A student proved to have illegally obtained, sold or used a controlled substance shall be permanently dismissed from the School of Pharmacy.

Student Honor Council
All students entering the Doctor of Pharmacy program receive a copy of the school's Honor Council Procedures and Standards of Professional and Ethical Behavior. These policies and procedures provide peer and faculty review to ensure these standards are upheld by each pharmacy student. In all cases of academic dishonesty, the instructor shall make an academic assessment about the student's grade on that work and judge that course.

Standards of Professional Attire and Classroom Etiquette
Upon acceptance and entry into the School of Pharmacy, students begin a process of developing the knowledge, skills and attitudes that creates the fundamental core of the profession of pharmacy. The development of these competencies to a practitioner's level takes several years, but early initiation of these professional behaviors promotes the development of professionalism. In order to provide students direction to this end, upon entering the Doctor of Pharmacy program all students receive a copy of the school's Standards of Professional Attire and Classroom Etiquette and must abide by these standards. Aiding by these Standards at the UMKC School of Pharmacy is a piece of the educational process that establishes esteem and responsible behaviors.
Noncredit Requirements

All doctor of pharmacy students are expected to actively participate in professional activities offered or required by the School of Pharmacy. These activities mirror those expected in professional practice and are intended to better prepare the student for professional life. The following are requirements for all Pharm.D. students:

1. Certification in Basic Cardiac Life Support [completion of the Health Professionals BCLS is strongly encouraged over the general BCLS certification] each year starting prior to enrollment in the Pharmacy 7310 and/or 7406P course. Certification must remain current throughout the entire program and is required for progression to the next professional year.
2. Certification in First Aid each year starting prior to enrollment in the Pharmacy 7310 and/or 7406P course. Certification must remain current throughout the entire program and is required for progression to the next professional year.
3. Licensure as a Missouri Intern Pharmacist each year starting prior to enrollment in the Pharmacy 7310 and/or 7406P course. Licensure must remain current throughout the entire program and is required for progression to the next professional year.
4. Proof of pharmacy intern liability insurance prior to enrollment in the Pharmacy 7310 and/or 7406P course and valid throughout the program.
5. All students must successfully complete the University of Missouri HIPAA [Health Insurance Portability and Accountability Act] tutorial yearly prior to beginning Introductory and Advanced Pharmacy Practice Experiences.
6. Any student completing Introductory or Advanced Pharmacy Practice Experiences at the University of Missouri Hospital and Clinics is required to complete the University of Missouri Code of Conduct online tutorial.
7. Proof of all required immunizations as noted prior to enrollment in the First Professional Year [two MMRs] and Third Professional Year [Hepatitis B, Chicken Pox, negative TB] and valid throughout the program.
8. Attendance and participation during the Doctor of Pharmacy orientation sessions prior to full matriculation into the First Professional Year unless previously excused, in writing, in advance of the event by the dean or designee.
9. Attendance at all Pharmacy Grand Rounds unless previously excused, in writing, in advance of the event by the dean or designee.
10. Attendance and participation during the third professional year in the School of Pharmacy Professional Dedication Ceremony unless previously excused, in writing, in advance of the event by the dean or designee.
11. Attendance and participation during the fifth professional year at the School of Pharmacy Career Enhancement and Professional Preparation Day unless excused by the dean or designee.
12. Attendance and participation in seminars, colloquia and workshops thought to be beyond the scope of education provided in the curriculum as requested by faculty and staff. Attendance is required unless previously excused in writing in advance of the event by the dean or designee.

Written English Proficiency Test Requirement

Students enrolled in the doctor of pharmacy and bachelor of science programs must complete the Written English Proficiency Test (WEPT). The University requires that all students successfully complete English Composition 115 and English 225. At the end of English 225, the WEPT is administered. Any student failing to pass the WEPT twice will be required to take English 299. Completion of English 299 will not count toward the degree, however will satisfy the WEPT requirement for students who earn a C- or better in the course. All students who have completed English Composition I and II elsewhere are required to take the WEPT. They, too, must abide by the results of the exam to be eligible for graduation. The WEPT is given twice each semester; the dates of the test appear regularly on the academic calendar.

Directed Individual Study

The opportunity to undertake independent study is offered through Pharmacy 7497 courses. These courses may satisfy part of the professional elective requirement. Generally, the student receives the individual attention of a professor in the chosen field of study, and the project may involve any topic considered appropriate to the academic needs of the student. Once the student and instructor have selected a topic, a proposal form must be submitted to the Dean of Undergraduate Studies for approval. The proposal form is a brief description of the work to be done and reveals the student's intellectual curiosity and willingness to pursue an individual study. At the completion of the work, a statement explaining the student's progress will be written by the student and the professor and submitted to the Dean of Undergraduate Studies. No more than five credit hours of Pharmacy 7497 courses may be counted toward the degree requirements. Pharmacy 7497 courses are offered on a credit/no credit basis only.

Off-campus Learning Experiences

All Pharm.D. students are required to participate in experiential learning rotations. All of the experiential learning courses are conducted in actual practice settings (e.g., community, hospitals, nursing homes, etc.) under the supervision of clinical practitioners— Instructors who serve as exemplary role models in their particular types of pharmacy practice. Students are expected to provide their own transportation to sites assigned for the experiential learning.

Experiential sites may be located outside the Kansas City area. During the clerkship rotations, living and travel expenses are the responsibility of the student.

Criminal Background Checks

The University on behalf of the School of Pharmacy agrees to inform students that as a condition of participating in any affiliated institution or site [academic service learning and/or introductory and advanced pharmacy practice experiential rotations], they must obtain and provide verification of a current, criminal background check prior to the student's assignment at an affiliated hospital/institution. The affiliated hospital/institution hereby understands and agrees that the decision to permit a student to participate at that affiliated hospital/institution on the basis of the result of any criminal background check remains solely with the affiliated hospital/institution and not the University. Failure on the student's part to submit to criminal background checks will delay progression or render a student unable to complete the professional degree program.

Liability Insurance

Students who are completing internship requirements or who are enrolled in academic service learning or introductory and advanced pharmacy practice experiential rotations must obtain pharmacy liability insurance. Students must be covered by pharmacy liability insurance prior to the first day of a school-sponsored service learning experience or experiential rotation. Students should contact the Pharmacy Student Services Office or the Office of Experiential Programs for information.

Drug Screening

Pharmacy students may be subject to random drug screens as a condition of participation in patient care activities (Academic Service Learning, Introductory and advanced pharmacy practice experiential rotations). Students wishing assistance for a drug related impairment may voluntarily seek council through the UMKC Counseling Center, the School of Pharmacy's PAALS program, or other available treatment centers. Treatment does not guarantee a student's participation in patient care activities.

Outside Employment

Because of the intensity of the professional curriculum, students are strongly urged to limit outside employment to no more than 10 hours per week while enrolled in the school. Students planning to practice the profession of pharmacy are required to satisfy the licensure requirements of the state in which they intend to practice. Licensure requirements vary, therefore, information concerning these requirements may be obtained by contacting the board of pharmacy of the state concerned.

The state of Missouri requires that an applicant for registration be 21 years of age, a graduate of an accredited school of pharmacy approved by the state’s board of pharmacy and have on file with the board proof of 1,500 hours of internship experience in a retail/community or hospital pharmacy under the supervision of a registered pharmacist/preceptor. Students attending a pharmacy school in the state of Missouri must complete three rotations through the school's externship program of at least 160 hours each, for a total of 480 hours which will satisfy the internship requirements. Refer to the Missouri Board of Pharmacy Web site http://pr.mo.gov/pharmacists.asp for the most up-to-date information as requirements can change at any time. Kansas internship requirements are presently 1,500 hours also.

STATE LICENSURE REQUIREMENTS

Students planning to practice the profession of pharmacy are required to satisfy the licensure requirements of the state in which they intend to practice. Licensure requirements vary, therefore, information concerning these requirements may be obtained by contacting the board of pharmacy of the state concerned.

The state of Missouri requires that an applicant for registration be 21 years of age, a graduate of an accredited school of pharmacy approved by the state’s board of pharmacy and have on file with the board proof of 1,500 hours of internship experience in a retail/community or hospital pharmacy under the supervision of a registered pharmacist/preceptor. Students attending a pharmacy school in the state of Missouri must complete three rotations through the school's externship program of at least 160 hours each, for a total of 480 hours which will satisfy the internship requirements. Refer to the Missouri Board of Pharmacy Web site http://pr.mo.gov/pharmacists.asp for the most up-to-date information as requirements can change at any time. Kansas internship requirements are presently 1,500 hours also.

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 instruction and programs. The School of Pharmacy has been accredited as a provider of continuing education by the Accreditation Council for Pharmacy Education. For more detailed information on offerings and services available, contact the associate dean of student affairs.

PHARMACY (PHARM) COURSES

• 7100A Introductory Topics In Pharmacy I (0.5)
- 7100B Introductory Topics In Pharmacy II (0.5)
- 7101 Professional Skills Development I (2)
- 7104 Professional Skills Development III (3)
- 7110 Pharmacy Calculations (2)
- 7125 Medical Terminology (1)
- 7151 Introduction To Pharmacy Law (1)
- 7202 Pharmaceutics I (4)
- 7203 Pharmaceutics II (3)
- 7203L Pharmaceutics II Lab (1)
- 7245 Top 200 I (0.5)
- 7246 Medical & Medication Error Evaluation & Management (3)
- 7303 Pharmacokinetics And Biopharmaceutics (4)
- 7310 Academic Service Learning I (1)
- 7313 Career Planning (1)
- 7323 Islam And Modern Practice Of Medicine And Pharmacy (1)
- 7325 Business, Professional & Technical Writing For Pharmacy Students (2)
- 7326 Evidence Based Medicine (5)
- 7341 Medicinal Chemistry I (3)
- 7344 Medicinal Chemistry II (3)
- 7345 Top 200 II (0.5)
- 7351 Pharmaceutics I (4)
- 7362 Pharmaceutics II (5)
- 7377 Principles Of Nutrition Support (2)
- 7389 Advances In Drug Therapy (2)
- 7397 Home Health Care (2)
- 7398 Comprehensive Diabetes Management (4)
- 7399 Required Enrollment (1)
- 7404P Drug Information Clerkship (4)
- 7405 Pharmacotherapy I (3)
- 7406P General Medicine I (4)
- 7407P General Medicine II (Ambulatory Care) (6)
- 7409P Health Systems Clerkship (4)
- 7410P General Medicine III (4)
- 7412P Community Pharmacy Practice Clerkship (4)
- 7414 Professional Skills Development II (3)
- 7418P Elective Clerkship I (4)
- 7419P Elective Clerkship II (4)
- 7420 Health Assessment & Pharmacotherapy II (7)
- 7420P Elective Clerkship II (4)
- 7421P Elective Clerkship III (4)
- 7424 Introduction To Natural Product Therapeutics (2)
- 7427 Hospital Pharmacy (2)
- 7428 Veterinary Pharmacology (3)
- 7449 Clinical Economics & Medical Decision-Making (3)
- 7451 Pharmacy Law And Ethics (2)
- 7452 Toxicology (2)
- 7455 Economics Of Health & Medicine (3)
- 7456 Religion, Culture And Health (3)
- 7457 Health Assessment & Pharmacotherapy III (7)
- 7489AB Special Topics In Pharmacy (1-5)
- 7489E Special Topics In Pharmacy (1-5)
- 7489N Special Topics In Pharmacy (1-5)
- 7489O Special Topics In Pharmacy (1-5)
- 7489P Special Topics Pharmacy (1-5)
- 7497E Directed Individual Study-Clinical Pharmacy (1-4)
- 5507 Basic Pharmacology (3)
- 5508 Basic Toxicology (3)
- 5515 Drug Absorption, Distribution, Metabolism And Excretion (3)
- 5519 Pharmacology I (4)
- 5520 Pharmacology II (5)
- 5521 Advanced Organic Medicinal Chemistry (3)
- 5527 Analytical Methods (3)
- 5531 Physical Pharmacy Equilibria (3)
- 5533 Biopharmaceutics And Pharmacokinetics (4)
- 5550 Stability Of Pharmaceuticals (3)
- 5551 Religion, Culture And Health (3)
- 5580A Seminar In Pharmaceutical Sciences (1)
- 5580C Seminar In Pharmacology/Toxicology (1)
- 5590A Special Topics Pharmacy (1-3)
- 5590B Special Topics Pharmaceutical Chemistry (1-3)
- 5599A Research And Thesis Pharmacy (1-9)
- 5599B Research And Thesis Pharmaceutical Chemistry (1-9)
- 5599C Research And Thesis Pharmacology (1-9)
- 5606 Biochemical Toxicology (3)
- 5615 Methods In Pharmacology And Toxicology (3)
- 5616 Molecular Toxicology (3)
- 5625 Synthetic Medicinal Chemistry (3)
- 5631 Pharmaceutical Formulations I (3)
- 5632 Novel Drug Delivery Systems (3)
- 5633 Receptor Pharmacology And Signal Transduction (3)
- 5645 Cancer Biotechnology I (3)
- 5646 Cancer Biotechnology (3)
Doctor of Pharmacy

DOCTOR OF PHARMACY (PHARM.D.)

First Professional Programs

Admissions

Student Learning Outcomes

Doctor of Pharmacy Curricular Requirements

Career Applications

First Professional Programs

First Professional Program A pharmacist is a medication expert whose obligation is to deliver pharmaceutical care. Pharmaceutical care is "the responsible provision of drug therapy for the purpose of achieving a definite outcome that improves a patient's quality of life" (Hepler and Strand). A pharmacist's functions include but are not limited to:

- Identifying, preventing and/or resolving drug-related problems.
- Preventing disease and promoting good health practices through rational drug therapy.
- Providing drug information to the public.
- Educating other health care professionals about appropriate drug therapies.
- Collaborating with other health care professionals to improve health outcomes, especially as they relate to the appropriate use of medications.
- Ensuring that medications are delivered to the patient in a safe manner.

Many practice areas are covered by these responsibilities. The curriculum is designed to develop the competencies of graduates, allowing them to assume the responsibilities listed above.

Preparing for a Pharmacy Education

To help prepare themselves for a pharmacy education, high school students should plan a course of study that includes a mathematics and science emphasis. Pre-pharmacy advisers are available on the campuses of most Missouri institutions of higher education. College students planning to apply for admission to the School of Pharmacy should consult these special advisers for assistance in planning their pre-pharmacy coursework. Students taking their pre-professional coursework at UMKC should contact the School of Pharmacy Student Services Office for advising on pre-pharmacy courses.

Program for Top High School Seniors

High school seniors with a minimum cumulative high school grade point average of 3.25 (on a 4.0 scale) and whose ACT composite score is a minimum of 23 or higher (1060 SAT minimum) are eligible to apply for the Freshman Provisional Admission Program. High school students are encouraged to take their school's math-science option, if available, in order to prepare for the health professional curriculum. As many as 30 provisional freshmen are accepted each year. Provisional students complete the pre-pharmacy coursework at UMKC and take the Pharmacy College Admission Test 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 freshmen collegiate year eligibility requirements are successfully completed.

The School of Pharmacy Provisional Application includes supplemental materials. Completed Provisional Application and supplemental materials must be postmarked or submitted to the UMKC School of Pharmacy Student Services Office no later than the Dec. 15 deadline. Official scores from the ACT must be received no later than the Dec. 15 deadline in order to be considered. For special application forms and information about degree programs and requirements, prospective students can visit http://pharmacy.umkc.edu. Admission to the Provisional Admission program is competitive. Applicants who meet the minimum requirements for provisional admission may not be accepted due to space availability restrictions.

Pre-Pharmacy Requirements for College Transfer Students

A minimum of 31 credit hours of college work, including the specified pre-professional requirements listed below, must be completed prior to admission to the professional pharmacy program of study with a grade of C or better. In addition, an overall cumulative grade-point average of 2.75 (on a 4.0 scale) and a science/math grade-point average of 2.5 (on a 4.0 scale) must be achieved prior to admission to the School of Pharmacy. All pharmacy students must successfully complete six hours of English composition, Communication Skills* 3-6

Pre-Pharmacy Curriculum/Semester Hours

English Composition* 6
Calculus with Analytical Geometry** 4
General Chemistry I & II with Lab 8
General Biology I & II# 6
Physics with Lab 4
Electives in Humanities and Social Sciences* 3-6

Minimum Required Hours 31

*Students attending institutions restricting freshman admission to the English Composition II course may substitute three additional hours of electives in the social sciences or humanities. A second semester of English composition may be completed on admission to the School of Pharmacy. All pharmacy students must successfully complete six hours of English composition, Communication Studies 110 or its equivalent, and pass the Written English Proficiency Test prior to enrollment in Pharmacy 7414.

**Calculus courses that are less than 4.0 credit hours or that do not include analytical geometry will not meet the minimum requirement.

Pre-pharmacy coursework must total a minimum of 31 credit hours. General CLEP credits will not be used to fulfill the mathematics, biology, physics, or chemistry requirements. Advanced Placement Program scores through the College Board are accepted for some pre-pharmacy courses. Please see acceptable scores and courses at http://www.umkc.edu/registrar/creditbyexam.asp#AP.

Check with an academic advisor in the School of Pharmacy regarding minimum score requirements and score and course transferability.

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 examinations. The program of study emphasizes clinical sciences and training experiences. The training of doctor of pharmacy students concentrates on rational drug therapy decision-making within the interprofessional health care team.

Application Procedures

Applications for the doctor of pharmacy program are accepted between Sept. 1 and Dec. 15 of each year for consideration for admission to the class entering the following fall. Admission to the School of Pharmacy is competitive. Applicants who meet the minimum requirements for admission may not be accepted due to space availability restrictions. New students are admitted to the doctor of pharmacy program only in the fall of each year. Completion of doctor of pharmacy applications, which include supplemental materials, must be postmarked no later than Dec. 15 in order to be considered. For application forms and information about degree programs and requirements, prospective students can visit http://pharmacy.umkc.edu or contact:

UMKC School of Pharmacy
Student Services Office
2464 Charlotte Street
As part of the process for application to the Doctor of Pharmacy program, all of the steps listed below must be adhered to carefully and all required documents must be postmarked by or submitted to the UMKC Pharmacy Student Services Office no later then the Dec. 15 deadline, unless otherwise stated.

1. You must submit a completed UMKC Doctor of Pharmacy Application for Admission, to include supplemental materials and the application fee ($35 for U.S. residents and $50 for international applicants). Note: students who are currently or have attended UMKC previously are not required to submit the application fee.

2. Official transcripts of all previous college coursework must be received by the School of Pharmacy Student Services Office. Applicants must have achieved a minimum 2.75 cumulative grade point average (GPA) (on a 4.0 scale) and a 2.5 science/math grade-point average (on a 4.0 scale) on all college-level work completed through the end of the fall term preceding the year of entry to meet minimum eligibility requirements. Cumulative and science/math GPAs include all college-level coursework completed.

3. The Pharmacy College Admission Test (PCAT) must be taken and scores forwarded to the School of Pharmacy from the official testing agency no later than March 1. Scores from PCAT's completed prior to June 2005 will not be accepted.

4. One official recommendation form must be completed from the application packet.

5. Students whose native language is not English must follow the UMKC English Proficiency Requirements for International Students. The minimum TOEFL score required is 220 computer score or 560 paper version.

6. Eligible applicants must complete a structured interview at the School of Pharmacy scheduled on a Saturday in March or April as a factor for admission. Applicants are notified by e-mail before their scheduled interview. Note: meeting minimum eligibility requirements does not automatically qualify an applicant for an interview. The student selection process is based on a multi-variant formula and the qualifications of the applicant pool. Factors considered include application materials submitted, results of the PCAT, collegiate scholastic achievement, collegiate science/math achievement, complexity of previous college work, recommendation form and recent leadership (including, but not limited to, campus and community involvement, health care and/or supervisory experience, honors and awards). Based on the academic and application credentials of the applicant pool, the school will select candidates for an interview. Students who do not qualify for the interview will also receive written notice.

Notification of Acceptance

Students will receive written notification of the school's decision concerning their applications on or prior to May 1 unless otherwise indicated.

Official supplementary college transcripts must be submitted to the Pharmacy Student Services Office upon completion of spring and summer coursework. Acceptance is contingent on submission of a criminal background check, good academic and behavioral standing, and satisfactory completion (grade of C or higher) of the specified minimum hours of pre-professional collegiate coursework and any other coursework completed during the spring and/or summer term prior to admission. Those students approved for admission will be required to confirm their acceptance and submit an advance deposit of $250 to guarantee their places in the entering class. This deposit is applied to the first term's educational fee and is not refundable.

CAREER APPLICATIONS

Pharmacy Careers

A number of graduates choose to practice in community and hospital pharmacies, but a wide variety of career possibilities in the pharmacy profession are available. Pharmacists have a wide spectrum of practice environments to choose from in which their professional skills can be applied. The salary range will vary with the location and type of practice. However, the annual starting salary in the Midwest for a pharmacist ranges from $85,000 to $120,000.

The community environment, including both private and corporate-owned pharmacies, offers the pharmacist the opportunity to practice, or to assume management positions. Organized health care institutions (hospitals, nursing homes and managed health care facilities) also offer the practitioner exciting practice opportunities.

Many nontraditional services are provided by pharmacists in the community including home nutrition, nuclear pharmacy, nursing home consultation and long-term care.

Graduates may choose to enter careers in the pharmaceutical industry in product development and control, marketing and manufacturing, management, sales and public relations and advertising. Career opportunities for pharmacists are available in state and federal government service in staff and supervisory positions in the U.S. Public Health Service, Department of Veterans Affairs, Food and Drug Administration, Bureau of Narcotics and Dangerous Drugs, in-state health agencies and in all branches of the armed services.

The doctor of pharmacy program also provides an appropriate academic base for students wishing to enter graduate study in the pharmaceutical sciences, chemistry and biology. Others have gone on to pursue degrees in medicine, dentistry and law.

Postgraduate training in the form of a residency and optional fellowship is recommended for all doctor of pharmacy graduates seeking advanced career opportunities in industry or academia.

Pre-Medicine/Pre-Health

PRE-MEDICINE / PRE-HEALTH HOME PAGE

Description
Choosing an Undergraduate Major
Pre-Medicine/Optometry
Advising
College of Arts and Sciences Track
College of Biological Sciences Track
Honors Program
Student Organizations

DESCRIPTION

Among the fastest-growing career areas are the health-related professions and this trend is likely to continue 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 Graduates 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 Pharmacology
  - Health Administration
  - Health Information Management
  - Nutrition/Dietetics
  - Occupational Therapy
  - Optometry
  - Physical Therapy
  - Podiatry
  - Respiratory Therapy
  - Veterinary Medicine
- Pre-Medicine (allopathic and osteopathic)
- Pre-Nursing
- Pre-Pharmacy
- Medical Technology (see section under School of Biological Sciences)
CHOOSING AN UNDERGRADUATE MAJOR

Following the pre-medicine or pre-health track means taking specific courses that professional programs require for admission, but "pre-medicine" or "pre-health" are not actual degrees. Students need to choose a major field of study to combine with one of these tracks. Students can choose to follow these tracks through the College of Arts and Sciences or the School of Biological Sciences, depending on the major selected. Professional schools accept individuals from a variety of educational backgrounds and majors. When choosing a major, it is wise for students to consider their personal interests and strengths as well as possible alternative career goals.

The School of Biological Sciences offers degrees in biology, including a bachelor of science in biology with an emphasis in the cellular and molecular basis of health and disease for pre-medicine students, and a pre-dentistry concentration for pre-dentistry students. Undergraduate students in the biological sciences also have the opportunity to work with faculty mentors in life sciences research.

The College of Arts and Sciences offers degree choices and medically related undergraduate research in areas spanning the sciences, social sciences and humanities. Popular majors to combine with pre-medicine and pre-health include psychology, chemistry, communication studies, physics, English 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.

ADVISING

Experienced advisers in the College of Arts and Sciences and the School of Biological Sciences are knowledgeable about the professional school admission processes.

Advisers guide students in:

- Choice of majors
- Choice of courses
- Volunteer and shadowing opportunities
- Undergraduate research options
- Other health care professions
- Career alternatives

Advisers also give students invaluable help with:

- The professional school application process
- Preparation for professional school admission tests (MCAT, DAT, OAT, VCAT, etc.)
- Letters of recommendation
- Writing the personal statement
- Successful interview strategies

COLLEGE OF ARTS AND SCIENCES TRACK

Cary Lyon, M.S.
Director of Pre-Health Programs
Scofield Hall, Room 9
711 E. 51st Street
(816) 235-5874
lyonc@umkc.edu

Dennise Todd
Pre-Health Adviser
Scofield Hall, Room 9
711 E. 51st Street
(816) 235-6270
todd0@umkc.edu

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 millennium as people live longer, our population ages, and "care" becomes as important as "cure."
- The Healing and Humanities Minor. Faculty from the College of Arts and Sciences 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

For more information see the Healing and Humanities Minor under the College's Interdisciplinary Minors and Concentrations section of this catalog.

COLLEGE OF BIOLOGICAL SCIENCES TRACK

Lynda S. Flammann
(816) 235-1827,  slflammann@umkc.edu

Tammy Welchert
(816) 235-1385, welchert@umkc.edu

Chris Jordan
(816) 235-2574, jordan@umkc.edu

Students interested in the scientific aspects of medicine or dentistry may find the School of Biological Sciences to be the right place for them. A major in biology incorporates courses in biology, chemistry and physics with a broad foundation in the social sciences and humanities. By meeting the degree requirements for the bachelor of science in biology with the cellular and molecular basis of health and disease emphasis, students will automatically fulfill all of the prerequisites and the upper-level biology courses which are highly recommended by most medical schools. The bachelor of
Continuing Education

CONTINUING EDUCATION HOME PAGE

http://www.umkc.edu/ce

Description

Credit Courses
Non-credit Courses
Educational Conferences and Institutes
Addiction Technology Transfer Center (ATTC)
Continuing Education Units
The Carolyn Benton Cocke-Nordal Chair in Continuing Education
UMKC Northland

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 may also 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
(816) 482-1100
http://fusion1.umkc.edu/centers/centers.cfm?ID=30

College of Arts and Sciences
Director, (816) 235-2736
http://cas.umkc.edu/ce

Henry W. Bloch School of Business and
Public Administration
Student Services, (816) 235-2215

School of Computing and Engineering
(816) 235-2399

School of Dentistry
Continuing Dental Education
(816) 235-2022
http://dentistry.umkc.edu

School of Education
Director, Continuing Education
(816) 235-1188

Honors Program

The College of Arts and Sciences and the School of Biological Sciences both offer Honors Programs for students with exemplary academic performance. The College of Arts and Sciences' program uses an interdisciplinary approach that encompasses studies in the sciences, humanities and social sciences, and engages students in a weekly Honors Colloquium and honors-designated courses.

The School of Biological Sciences' program combines a requirement for high levels of academic achievement with an undergraduate experimental research project and enrichment activities like study trips and seminar attendance.

Student Organizations

There are more than 200 active student organizations (including Greek) at UMKC that promote student leadership, volunteerism, community service and socialization. Some of the popular organizations among pre-medical students include:

Pre-Medical Society.

This is a university-wide student organization that provides various extracurricular opportunities for students to learn about the health care professions and to network with other like-minded students. Previous meetings have included discussions on Bioethics, HMOs, organ donation, complementary medicine, genetics and gene therapy, donating, 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.

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.
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 INSTITUTIONS
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.

ADDITION TECHNOLOGY TRANSFER CENTER (ATTC)
http://www.matcc.org

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 UNITS
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 is responsible 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 have also 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 Advance Studies Programs for Working Professionals in the Northland area of Kansas City. UMKC Northland is located near the K.C.I. Airport, just off I-29 at:

Platte County Resource Center, Suite 701
11724 N.W. Plaza Circle
Kansas City, MO 64153
(816) 235-6630
http://www.umkc.edu/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
- Ed.S. in educational administration
- Ed.D. in educational administration

New professional development and continuing education programs are being created to serve the Northland area. UMKC Northland 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.
ARCHITECTURE, URBAN PLANNING AND DESIGN

@ Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
+ Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

Architecture, Urban Planning and Design

#*Michael Frisch, assistant professor of architecture, urban planning and design; M. City Planning (Massachusetts Institute of Technology); Ph.D. (Rutgers University); A.I.C.P.

Sungyop Kim, assistant professor of architecture, urban planning and design; M. Urban and Regional Planning (University of Hawaii); Ph.D. (University of Washington).

Theodore H. Seligson, visiting professor of architecture, urban planning and design; B.Arch. (Washington University); F.A.I.A.

Joy D. Swallow, chair, department of architecture, urban planning and design, and associate professor of architecture; B.Arch. (Kansas State University); M.Arch. (University of Pennsylvania); A.I.A.

#*Jacob A. Wagner, assistant professor of architecture, urban planning and design; B.A., M.S. (University of Oregon); Ph.D. (University of New Orleans).

ART AND ART HISTORY

@ Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
+ Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

Art and Art History

Eric J. Bransby; professor emeritus of art; B.A., M.A. (Colorado College); M.F.A. (Yale University).

@*Robert Cohon, associate research professor of art history; B.A. (Columbia University); M.A., Ph.D. (New York University).

#*Frances Connelly, associate professor of art history; B.A. (Wake Forest University); M.A. (University of Pittsburgh); M.F.A. (University of North Carolina at Greensboro); Ph.D. (University of Pittsburgh).

William G. Crist; professor emeritus of art; B.A. (University of Washington, Seattle); M.F.A. (Cranbrook Academy of Art).

Nancy DeLaurier; instructor emeritus of art; B.S. (Northwestern University).

#*Burton L. Dunbar, III, chair, department of art and art history, and professor of art history; B.A. (Park College); M.A., Ph.D. (University of Iowa).

George Ehrlich; professor emeritus of art history; B.S., M.F.A., Ph.D. (University of Illinois).

*Geraldine E. Fowle, associate professor of art history; A.B. (Aquinas College); M.A., Ph.D. (University of Michigan).

Stephen J. Gosnell, associate professor emeritus of art; M.A. (State University of New York).

*P. Elijah Gowin, assistant professor of art; B.A. (Davidson College); M.F.A. (University of New Mexico).

Edward Hogan, lecturer of art; B.F.A. (Kansas City Art Institute); M.A. (University of Missouri-Kansas City).

Leonard I. Koenig; professor emeritus of art; B.A. (Adelphi College); M.A. (University of Iowa); M.F.A. (University of Wisconsin-Madison).

Barbara A. Mueller; professor emeritus of art; B.A. (Maryville College); M.A. (University of Iowa).

*Craig A. Subler, assistant professor of art; B.F.A. (Dayton Art Institute); M.A., M.F.A. (University of Iowa).

Joy D. Swallow, associate professor of architecture; B.Arch. (Kansas State University); M.Arch. (University of Pennsylvania).

*Kati Toivanen, assistant professor of digital media and photography; M.F.A. (School of the Art Institute of Chicago).

#*Maude Wahlman, Dorothy and Dale Thompson/Missouri Endowed Professor in Arts; B.A. (Colorado College); M.A. (Northwestern University); M.Phil., Ph.D. (Yale University).

#*Rochelle N. Ziskin, associate professor of art history; B.A. (University of Illinois-Chicago).
Chemistry

Keith R. Buszek (\textsuperscript{m}), associate professor of chemistry; B.S. (University of California, Irvine); Ph.D. (University of California, Los Angeles).

Kuang Lu Cheng (\textsuperscript{m}), professor emeritus of chemistry; B.S. (Northwestern College, China); M.S., Ph.D. (University of Illinois).

John W. Connolly (\textsuperscript{m}), professor emeritus of chemistry; B.S. (Xavier University); Ph.D. (Purdue University).

Wesley J. Dale (\textsuperscript{m}), professor emeritus of chemistry; B.S. (University of Illinois); Ph.D. (University of Minnesota).

\#Jerry R. Dias (\textsuperscript{m}), professor of chemistry; B.S. (San Jose State College); Ph.D. (Arizona State University).

Henry A. Droll (\textsuperscript{m}), professor emeritus of chemistry; B.S., M.S. (George Washington University); Ph.D. (University of Pennsylvania).

\#James R. Durig (\textsuperscript{m}), curators' professor of chemistry and geosciences; B.A. (Washington and Jefferson College); Ph.D. (Massachusetts Institute of Technology).

Todor K. Gouvey (\textsuperscript{m}), director of laboratories and associate professor of chemistry; Diploma, Ph.D. (Swiss Federal Polytechnic Institute).

Peter Groner (\textsuperscript{m}), director of communication and program director; B.S., M.S. (University of Sofia, Bulgaria); Ph.D. (University of South Carolina).

Eckhard W. Hellmuth (\textsuperscript{m}), professor emeritus of chemistry; B.S., M.S., Ph.D. (University of Marburg, Germany).

\#Andrew J. Holder (\textsuperscript{m}), professor of chemistry; B.S. (Mobile College); Ph.D. (University of Southern Mississippi).

\#Y. C. Jerry Jean (\textsuperscript{m}), chair, department of chemistry, and curators' professor of chemistry and physics; B.S. (Taipei Institute of Technology Taiwan); Ph.D. (Marquette University).

\#Ekaterina N. Kadinova (\textsuperscript{m}), assistant professor of chemistry; diploma in chemistry (Higher Chemical College of the Russian Academy of Sciences); Ph.D. (Iowa State University).

\#Kathleen V. Kilway (\textsuperscript{m}), associate professor of chemistry; B.S. (St. Mary's College); M.S., Ph.D. (University of California-San Diego).

Peter F. Lott (\textsuperscript{m}), professor emeritus of chemistry; B.S., M.S. (St. Lawrence University); Ph.D. (University of Connecticut).

Layton L. McCoy (\textsuperscript{m}), professor emeritus of chemistry; B.S., Ph.D. (University of Washington).

\#Nathan A. Oyler (\textsuperscript{m}), assistant professor of chemistry; B.S. (University of Arizona); Ph.D. (University of Washington).

\#Zonghua Peng (\textsuperscript{m}), professor of chemistry; B.S. (University of Science and Technology of China); M.S. (Chinese Academy of Sciences); Ph.D. (University of Chicago).

\#Thomas C. Sandrelecki (\textsuperscript{m}), professor of chemistry; B.A. (Houghton College); M.S., Ph.D. (University of Rochester).

Kenneth S. Schmitz (\textsuperscript{m}), professor of chemistry; B.A. (Greenville College); Ph.D. (University of Washington-Seattle).

Timothy F. Thomas (\textsuperscript{m}), professor emeritus of chemistry; A.B. (Oberlin College); Ph.D. (University of Oregon).

\#J. David Van Horn (\textsuperscript{m}), assistant professor of chemistry; B.A. (Point Loma Nazarene College); Ph.D. (University of Utah).

\#Charles J. Wurrey (\textsuperscript{m}), executive associate dean and curators' distinguished teaching professor of chemistry; B.S. (Northern Michigan University); Ph.D. (Massachusetts Institute of Technology).

Communications Studies

\@ Associate or Adjunct Graduate Faculty
\* Members of UMKC Graduate Faculty
\# Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

Communications Studies

\#Joan E. Aitken (\textsuperscript{m}), professor emerita of communication studies; B.A. (Michigan State University); M.A., Ed.D. (University of Arkansas).

Gregory D. Black (\textsuperscript{m}), professor emeritus of communication studies; B.S. (Bowling Green State University); M.A. (California State); Ph.D. (University of Kansas).

\#Linda M. Collier (\textsuperscript{m}), associate professor of communication studies; director of debate; B.A., J.D. (University of Missouri-Kansas City).

Angela C. Elam (\textsuperscript{m}), assistant professor of communication studies and radio producer; B.A. (Clemson University); M.F.A. (University of Georgia-Athens).

Daven Gee (\textsuperscript{m}), assistant professor of communication studies; B.A. (California State University, Chico & University of Hawaii, Hilo); M.F.A. (San Francisco State University).

\#Gregory Gutenko (\textsuperscript{m}), associate professor of communication studies; B.A., M.A. (University of Missouri-Kansas City); Ph.D. (University of Missouri-Columbia).

Caitlin M. Horson (\textsuperscript{m}), assistant professor of communication studies; B.A. (Oberlin College); M.A., M.F.A. (University of Iowa).

\#Carol F. Koehler (\textsuperscript{m}), associate professor of communication studies; B.A. (Rosary College); M.A., Ph.D. (University of Missouri-Kansas City).

Gaylord V. Marr (\textsuperscript{m}), professor emeritus of communication studies; B.A., M.A. (University of Nebraska).

Donald H. Matthews (\textsuperscript{m}), director of black studies and associate professor of communication studies; B.S., M.A. (Northwestern University); M.Div. (The Pacific School of Religion, Berkeley); Ph.D. (University of Chicago).

Judith McCormick (\textsuperscript{m}), associate dean and assistant professor of communication studies; B.A., M.A. (Texas Tech University); Ph.D. (Kansas State University).

Peter Morello (\textsuperscript{m}), associate professor of communication studies; B.A. (University of Wisconsin-Madison); M.S. (Columbia University).

Michael Neer (\textsuperscript{m}), professor of communication studies; B.A., M.A., Ph.D. (University of Missouri-Columbia).

\*G. Thomas Poe (\textsuperscript{m}), chair, department of communication studies, and associate professor of communication studies; B.A. (Central Methodist College); M.A. (Northwest Missouri State); M.Div. (Emory University), M.A. (University of Missouri-Kansas City); Ph.D. (University of Kansas).

Robert B. Unger (\textsuperscript{m}), professor of communication studies and English; B.A. (University of Missouri-Columbia); M.P.A. (Harvard University).

Economics

\@ Associate or Adjunct Graduate Faculty
\* Members of UMKC Graduate Faculty
\# Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

Economics

\#W. Robert Brazelton (\textsuperscript{m}), professor emeritus of economics; B.A. (Dartmouth College); M.A., Ph.D. (University of Oklahoma).

\#Peter J. Eaton (\textsuperscript{m}), associate professor of economics; B.A. (University of Santa Clara); Ph.D. (University of Florida).

\#Mathew Forstater (\textsuperscript{m}), associate professor of economics; B.A. (Temple University); M.A. (New School for Social Research); Ph.D. (New School for Social Research).
L. Kenneth Hubbell, professor emeritus of economics and joint professor in the L.P. Cookingham Institute of Public Affairs; B.A., M.A. (Texas Christian University); Ph.D. (University of Nebraska).

*Stephanie A. Kelton, assistant professor of economics; B.A. (California State University-Sacramento); M.Phil. (Cambridge University); Ph.D. (New School for Social Research).

*Fredric S. Lee, professor of economics; B.A. (Frostburg State University); M.Phil. (Rutgers University).

*Erik K. Olsen, assistant professor of economics; B.S. (Northeastern University); Ph.D. (University of Massachusetts at Amherst).

Ross Shepherd, professor emeritus of economics; A.B. (Harvard University); M.A., Ph.D. (Syracuse University).

*James J. Sturgis, chair, department of economics, and professor of economics; B.A. (Kansas State Teachers College-Emporia); M.A. (University of Missouri-Kansas City); Ph.D. (University of Oklahoma).

*Karen S. Vorst, professor of economics; B.S. (Bowling Green State University); Ph.D. (Indiana University).

F. Eugene Wagner, professor emeritus of economics; B.A., M.S. (University of Missouri-Kansas City); Ph.D. (Syracuse University).

*John G. Ward, professor emeritus of economics; B.A., M.A. (University of Toledo); Ph.D. (University of Oklahoma).

*L. Randall Wray, professor of economics; B.A. (University of the Pacific); M.A. (Washington University); Ph.D. (Washington University).

---

**ENGLISH LANGUAGE AND LITERATURE**
@ Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
# Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

**English Language and Literature**

#*Hadara Bar-Nadav, assistant professor of English; B.A. (William Paterson College); M.A. (Montclair State University); Ph.D. (University of Nebraska-Lincoln).

#*John C. Barton, assistant professor of English; B.A. (University of California-Berkeley); M.A., Ph.D. (University of California-Irvine).

Ralph A. Berets; associate professor emeritus of English; B.A., M.A., Ph.D. (University of Michigan).

#Virginia Blanton, assistant professor of English; B.A. (Southwestern College); M.A., Ph.D. (Binghamton University).

*Michele A. Boisseau, professor of English; B.A., M.A. (Ohio University); Ph.D. (University of Houston).

#*Jaan F. Dehn, curators' teaching professor of English; A.B. (Canisius College); M.A., Ph.D. (Purdue University).

#*Stephen Dilks, associate professor of English; B.A. (University of Stirling, Scotland); M.A., Ph.D. (Rutgers University).

#*Laurie Ellingshausen, assistant professor of English; B.A. (University of Houston), M.A. (Ohio State University), Ph.D. (University of California-Santa Barbara).

Robert M. Farnsworth, professor emeritus of English; B.A. (University of Michigan); M.S. (University of Connecticut); Ph.D. (Tulane University).

Moira Ferguson; professor emerita of English; B.A. (University of London, Birkbeck College); M.A. (University of Washington, Seattle).

#*Jennifer Frangos, assistant professor of English; B.A. (Vassar College); M.A. (State University of New York-Buffalo), Ph.D. (State University of New York-Stony Brook).

#*Jane Greer, associate professor of English; B.A. (Hanover College); M.A., Ph.D. (Ohio State University).

#*Christie Hodgen, assistant professor of English; B.A. (University of Virginia, Charlottesville); M.F.A. (Indiana University, Bloomington), Ph.D. (University of Missouri, Columbia).

Sheila Honig, lecturer in English; B.A., M.A. (University of Missouri, Columbia).

Patricia Huyett, lecturer in English; B.A., M.A. (University of Missouri-Kansas City).

Daniel Freeman Jaffe, professor emeritus of English; B.A. (Rutgers University); M.A. (University of Michigan).

Katie Kline, lecturer in English.

#*Daniel Mahala, associate professor of English; B.A. (State University of New York at Binghamton); M.A. (New York University); D.A. (State University of New York at Albany).

James C. McKinley, professor emeritus of English; B.J., M.A., Ph.D. (University of Missouri, Columbia).

#*Jennifer Phiegle, associate professor of English and women’s studies; B.A. (Southwest Texas State University); M.A., Ph.D. (Ohio State University).

#*Michael Pritchett, associate professor of English; B.J. (University of Missouri, Columbia); M.F.A (Warren Wilson College).


James A. Reeds; associate professor emeritus of English and linguistics; B.A., M.A. (University of Iowa); A.M., Ph.D. (University of Michigan).

#*Jeffrey A. Rydberg-Cox, chair, department of English language and literature, and associate professor of English and classics; B.A. (Colorado College); M.A., Ph.D. (University of Chicago).

#*Anthony Shiu, assistant professor of English; B.A. (Ohio University); M.A. (University of Vermont), Ph.D. (Michigan State University).

@Robert Stewart, assistant professor of English and editor of New Letters; B.A. (University of Missouri-St. Louis), M.A. (University of Missouri-Kansas City).

#*Thomas Stroik, professor of English; B.A., M.A., Ph.D. (University of Wisconsin-Madison).

#*Linda E. Voigt, curators' professor emerita of English; B.A. (William Jewell College); M.A. (University of Missouri-Kansas City); Ph.D. (University of Missouri, Columbia).

#*David H. Weinglass, professor emeritus of English; B.A., M.A. (St. Catherine's College-University of Cambridge); Ph.D. (Kansas State University).

#*Robert F. Willson, Jr., professor emeritus of English; B.A. (Wayne State University); M.A., Ph.D. (University of Wisconsin).

---

**FOREIGN LANGUAGES AND LITERATURE**
@ Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
# Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

**Foreign Languages and Literatures**

#*K. Scott Baker, assistant professor of foreign languages; B.A. (University of Oregon); M.A., Ph.D. (University of Washington).

#*Patricia P. Brodsky, professor emeritus of foreign languages; B.A. (University of Iowa); M.A., Ph.D. (University of California, Berkeley).

Rafael Espelio-Saaavedra, professor emeritus of foreign languages; B.A., M.A. (Occidental College); Ph.D. (University of California, Los Angeles).

#*Louis Imperiale, professor of foreign languages; Licence ès Lettres (Université de Grenoble); M.A. (University of Puerto Rico); Ph.D. (Catholic University of America).

Iman Osman Khalil, associate professor emeritus of foreign languages; M.A., Dr.Phil. (University of Munich).
Nacer Khelouz*, visiting assistant professor of foreign languages; Licence, Maîtrise (Université de Paris VIII); Ph.D. (University of Pittsburgh).

*Kathy M. Krause*, associate professor of foreign languages; B.A. (Dartmouth College); M.A., Ph.D. (University of Pennsylvania).

*Rebecca L. Lee*, assistant professor of foreign languages; B.A. (Wellesley College); M.A., Ph.D. (Cornell University).

*Gayle A. Levy*, associate professor of foreign languages; A.B. (University of California-Berkeley); M.A. (Johns Hopkins University); Ph.D. (Duke University).

Rose Marie Marfurt, assistant professor emeritus of foreign languages; Licence ès Lettres, Agrégation des Lettres (University of Lausanne, Switzerland).

Larson Powell*, assistant professor of foreign languages; B.A. (Harvard University); M.A., M.Phil., Ph.D. (Columbia University).

Alice Ruth Reckley Valles*, chair, department of foreign languages and literatures, and associate professor of foreign languages; B.A., M.A. (Ohio University, Athens); Ph.D. (University of Kansas).

Timothy A.B. Richards, professor emeritus of foreign languages; B.A. (Bristol University, U.K.); M.A. (University of Wisconsin, Madison); Ph.D. (University of Colorado, Boulder).

Raymond T. Riva, professor emeritus of foreign languages; B.A., Ph.D. (University of Illinois); A.M. (Middlebury College).

*Alberto Villamandos*, assistant professor of foreign languages; Licenciatura (University of Navarra, Spain); M.A., Ph.D. (University of Ottawa, Canada).

Herwig G. Zauchnerberger, professor emeritus of foreign languages; B.A., M.A. (University of Colorado); Dr. Phil. (University of Vienna); M.A., Ph.D. (Yale University).

**GEOSCIENCES**

* Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
* Members of UMKC Doctoral Faculty

**Geosciences**

*Jimmie O. Adogho*, assistant professor of geosciences; B.S. (Ahmadu Bello University); M.S. (University of Ibadan); Ph.D. (Pennsylvania State University).

*Raymond M. Coveney, Jr.*, professor of geosciences; B.S. (Tufts University); M.S., Ph.D. (University of Michigan).

*Caroline P. Davies*, assistant professor of geosciences; B.A. (College of William-Smith); M.S. (University of Maine); Ph.D. (Arizona State University).

*Steven L. Driever*, professor of geosciences; B.A. (University of Virginia); M.S. (Northwestern University); Ph.D. (University of Georgia).

*Richard J. Gentile*, professor emeritus of geosciences; B.A., M.A. (University of Missouri-Columbia); Ph.D. (University of Missouri-Rolla).

Edwin D. Goebel, professor emeritus of geosciences; A.B. (Augustana College); M.S. (University of Iowa); Ph.D. (University of Kansas).

*Syed E. Hasan*, chair, department of geosciences, and professor of geosciences; B.S. (Patna University); M.S. (Indian Institute of Technology, formerly Roorkee University); Ph.D. (Purdue University).

Paul L. Hillman, professor emeritus of geosciences; A.B. (Brown University); M.A., Ph.D. (University of Kansas).

*Daniel P. Hopkins*, associate professor of geosciences; B.A. (Tulane University); Ph.D. (Louisiana State University).

*Wei Ji*, professor of geosciences; B.S., M.S. (Tsinghua University); Ph.D. (University of Connecticut).

*Jeung Lee*, assistant professor of geosciences; B.S., M.S. (Seoul National University); Ph.D. (Northwestern University).

*Deborah J. O’Bannon*, associate professor of geosciences; B.S. (Texas A&M University); M.S. (Texas A&M University); Ph.D. (Texas A&M University).

James B. Murovchick, associate professor of geosciences; B.S. (University of Illinois); M.S., Ph.D. (Pennsylvania State University).

*Tina M. Niemi*, associate professor of geosciences; B.A. (College of Wooster); M.S., Ph.D. (Stanford University).

Eldon J. Parizek, dean emeritus, college of arts and sciences, and professor emeritus of geosciences; B.S., M.S., Ph.D. (University of Iowa).

*Jerry R. Richardson*, associate professor of computing and engineering and adjunct professor of geosciences; B.S., M.S., Ph.D. (Colorado State University); P.E.

**HISTORY**

* Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
* Members of UMKC Doctoral Faculty
+ Located at U-M-St. Louis campus

**History**

*William B. Ashworth, Jr.*, associate professor of history; B.A. (Wesleyan University); Ph.D. (University of Wisconsin).

*Andrew Bergerson*, associate professor of history; B.A. (Cornell University); M.A. (University of Edinburgh); Ph.D. (University of Chicago).

*Diane Mutti Burke*, assistant professor of history; B.A. (Dartmouth College); M.A., Ph.D. (Emory University).

Jesse V. Clardy*, professor emeritus of history; B.S., M.S. (Texas College of Arts and Industries); Ph.D. (University of Michigan).

*Gary L. Ebersole*, professor of history and director of religious studies; B.A. (Dickinson College); M.A., Ph.D. (University of Chicago).

*James Stephen Fails*, associate professor of history; B.A. (University of Alabama); M.A., Ph.D. (Mississippi State University).

*Miriam Forman-Brunell*, professor of history; A.B., M.A. (Sarah Lawrence College); Ph.D. (Rutgers University).

John T. Graham, professor emeritus of history; A.B. (Rockhurst College); Ph.D. (St. Louis University).

*Viviana L. Gricio*, assistant professor of history; B.A. (Universidad de Buenos Aires); M.A., Ph.D. (Emory University).

Herman M. Hattaway*, professor emeritus of history; B.A., M.A., Ph.D. (Louisiana State University).

*John Herron*, assistant professor of history; B.A., M.A. (Montana State University); Ph.D. (University of New Mexico).

Cynthia Jones*, adjunct instructor of History; B.A., M.A., Ph.D. (University of Missouri-Kansas City).

*Carla L. Klausner*, professor of history and Curator’s Teaching Professor; B.A. (Barnard College); M.A. (Rutgers College); Ph.D. (Harvard University).

*Lawrence H. Larsen*, professor emeritus of history; B.S. (Lawrence College); M.S., Ph.D. (University of Wisconsin).

*Dennis Merrill*, professor of history; B.A. (Providence College); M.A., Ph.D. (University of Connecticut).

Gary Palmer*, adjunct instructor of history; B.S. Ed. (Concord University); M.A. (University of Missouri-Kansas City); M. of Divinity (Central Baptist Theological Seminary).

Stanley B. Parsons, Jr.*, professor emeritus of history; B.S. (University of Missouri-Columbia); M.A. (University of South Dakota); Ph.D. (University of Iowa).

*Lynda Payne*, assistant professor of history; M.A. (University of Edinburgh); Ph.D. (University of California, Davis).
PHYSICS

Patrick A. Peebles, professor of history; B.A. (University of California-Berkeley); M.A., Ph.D. (University of Chicago).

Linna F. Place, research associate professor/university liaison to the Harry S. Truman Presidential Library; B.A. (Denison University); M.A. (Cooperstown Graduate Programs); Ph.D. (Kansas University).

Louis W. Potts, chair, department of history, and professor of history; B.A. (Lafayette College); M.A., Ph.D. (Duke University).

Joseph P. Schultz, professor emeritus of history; B.A. (Yeshiva University); M.A. (Jewish Theological Seminary of America); Ph.D. (Brandeis University).

Ted P. Sheldon, director emeritus of libraries and adjunct professor of history; B.A. (Elmhurst College); M.A., Ph.D. (Indiana University); M.S.L.S. (University of Illinois).

Kamel Rekab, Boumediene Hamzi, Edward F. Walter, Eric J. Hall, Hans W. Uffelmann, Dana Tulodziecki, Mark A. Gamalo, Richard Delaware, Keith M. Ashman, Physics located at UM-St. Louis campus.

Bruce Bubacz, Philosophy; A.B. (Oberlin College); Ph.D. (University of Tennessee).

Solomon E. Levy, professor emeritus of philosophy; B.A. (Brooklyn College); M.A., Ph.D. (University of Southern California).

Clancy W. Martin, assistant professor of philosophy; B.A. (Brooklyn College); M.A. (Baylor University); Ph.D. (University of California-Berkeley).

George D. Gale, Jr., professor of philosophy; B.A. (University of Santa Clara); M.A. (San Francisco State College); Ph.D. (University of California-Davis).

Sara Talmo, Solomon Levy, professor emeritus of philosophy; B.A. (Brooklyn College); M.A. (Baylor University); Ph.D. (University of California-Berkeley).

Wayne Vaught, chair, department of philosophy, and associate professor of philosophy; B.A. (Georgetown College); M.A. (Baylor University); Ph.D. (University of Tennessee).

Louis W. Potts, Edward F. Walter, Philosophy located at UM-St. Louis campus.

Joel S. Krieger, assistant professor of philosophy; B.A. (Queen Mary College, London); Ph.D. (School of Mathematical Sciences, Queen Mary College, London).

James R. Beacham, associate professor emeritus of physics; B.S., M.S., Ph.D. (Purdue University).

Paul J. Bryant, professor emeritus of physics; B.S. (Rockhurst College); M.S., Ph.D. (St. Louis University).

Anthony Caruso, assistant professor of physics; B.A. (Bethany College); M.S., Ph.D. (University of Nebraska).

Y. C. Jerry Jean, assistant professor of physics; B.S. (Duke University); M.S., Ph.D. (University of California-Berkeley).

Wai-Yim Ching, chair, department of physics, and professor of physics; B.S. (Stanford University); B.A. (State University of New York-Stony Brook); Ph.D. (University of California-Berkeley).

Mathematics

Associate or Adjunct Graduate Faculty

#*Jie Chen, associate professor of statistics; B.S. (Chongqing University, China); M.S. (University of Akron); Ph.D. (Bowling Green State University).

Richard Delaware, associate clinical professor of mathematics; B.S. (Santa Clara University); M.A. (University of Kansas); Ph.D. (University of Missouri-Kansas City).

Mark A. Gamalo, assistant professor of statistics; B.S. (Ateneo de Manila University); M.S. (University of the Philippines); M.A., Ph.D. (University of Pittsburgh).

Eric J. Hall, assistant professor of mathematics; B.A. (Carleton College); Ph.D. (University of Michigan).

Boumediene Hamzi, assistant professor of mathematics; M.S., Ph.D. (University of Paris-Sud).

Kamel Rekab, chair, department of mathematics and statistics, and professor of statistics; M.S. (Stanford University); Ph.D. (University of Michigan).

Noah H. Rhee, associate professor of mathematics; B.S. (Seoul National University, South Korea); Ph.D. (Michigan State University).

Rebecca S. Roberts, lecturer in mathematics; B.A., M.A. (University of Denver).

Liana Sega, assistant professor of mathematics; B.S. (University of Bucharest, Romania); Ph.D. (Purdue University).

Hristo D. Voulov, assistant professor of mathematics; M.S., Ph.D. (Sofia University, Bulgaria).

Xin Yan, associate professor of statistics; B.S. (China University of Geosciences); M.S., Ph.D. (University of California at Davis).

Yong Zeng, associate professor of statistics; B.S. (Fudan University, China); M.S. (University of Georgia); Ph.D. (University of Wisconsin-Madison).

Philosophy

Associate or Adjunct Graduate Faculty

Bruce Bubacz, curators' professor of philosophy and professor of law; B.A. (Ripon College); M.S., Ph.D. (University of Washington-Seattle).

Henry R. Frankel, professor of philosophy; A.B. (Oberlin College); Ph.D. (Ohio State University).

George D. Gale, Jr., professor of philosophy; B.A. (University of Santa Clara); M.A. (San Francisco State College); Ph.D. (University of California-Davis).

Sara Talmo, Solomon Levy, professor emeritus of philosophy; B.A. (Brooklyn College); M.A. (Baylor University); Ph.D. (University of California-Berkeley).

James Sheppard, assistant professor of philosophy; B.A. (University of Wisconsin-Eau Claire); M.A. (Michigan State University); Ph.D. (Binghamton University).

Dana Tulodziecki, assistant professor of philosophy; B.S., M.S. (The London School of Economics and Political Science); Ph.D. (Columbia University).

Hans W. Uffelmann, professor emeritus of philosophy; B.A. (University of California-Davis); M.A., Ph.D. (Northwestern University).

Wayne Vaught, chair, department of philosophy, and associate professor of philosophy; B.A. (Georgetown College); M.A. (Baylor University); Ph.D. (University of Tennessee).

Edward F. Walter, professor emeritus of philosophy; B.A. (St. John’s University); M.A., Ph.D. (New York University).

Physics

Associate or Adjunct Graduate Faculty

Keith M. Ashman, assistant professor of physics; B.Sc. (Queen Mary College, London); Ph.D. (School of Mathematical Sciences, Queen Mary College, London).

James R. Beacham, associate professor emeritus of physics; B.S., M.S., Ph.D. (Purdue University).

Paul J. Bryant, professor emeritus of physics; B.S. (Rockhurst College); M.S., Ph.D. (St. Louis University).

Anthony Caruso, assistant professor of physics; B.A. (Bethany College); M.S., Ph.D. (University of Nebraska).

Wai-Yim Ching, chair, department of physics, and professor of physics; B.S. (Duke University); B.A. (State University of New York-Stony Brook); Ph.D. (University of California-Berkeley).
**POLITICAL SCIENCE**

* Members of UMKC Graduate Faculty
* Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

Political Science

*David N. Atkinson*, associate professor of political science; B.A., M.A., Ph.D. (University of Iowa).

Reginald L. Bassa, Jr., assistant professor of political science; B.A. (U.S. Military Academy); M.A. (Columbia University).

Robert Collins, professor of political science; B.A. (University of Missouri - Kansas City); M.A. (University of Missouri - Kansas City); M.P.A. (University of Michigan - Ann Arbor).

*Robert K. Evanson*, associate professor of political science; B.A. (University of Illinois-Urbana); M.A., Ph.D. (University of Wisconsin-Madison).

*Robert E. Gamer*, professor of political science; B.A. (Monmouth College); Ph.D. (Brown University).

Mohammed M. Hafez, visiting professor of political science; B.A. (UCLA); M.A. (Univ. of Southern California); Ph.D. (London School of Economics).

Ben L. Martin, associate professor emeritus of political science; B.A. (University of Texas); M.A., M.A.L.D., Ph.D. (Fletcher School of Law and Diplomacy, Tufts University).

*Elizabeth Miller*, assistant professor of political science; B.A. (Angelo State University); M.A., Ph.D. (Rice University).

Harris G. Mirkin, chair, department of political science, and associate professor of political science; B.A. (Hobart College); M.A. (The New School for Social Research, New York); M.A., Ph.D. (Pitzer College).

Dale Allen Neuman, professor emeritus of political science; A.B. (Kenyon College); Ph.D. (Northwestern University).

*Boris E. Ricks*, assistant professor of political science; B.S. (Mississippi Valley State University); M.P.A. (University of Mississippi); Ph.D. (University of Southern California).

*Max J. Skidmore*, curators' professor of political science; B.S., B.S. Ed. (Southwest Missouri State); M.Ed. (University of Missouri-Columbia); Ph.D. (University of Minnesota).

*Ross Stephens*, professor emeritus of political science; B.A. (Park College); M.S., Ph.D. (University of Wisconsin-Madison).

Daniel Stoll, adjunct professor of political science; B.A. (St. Olaf College); M.A. (Georgetown University); Ph.D. (University of Missouri - Kansas City).

**PSYCHOLOGY**

* Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
+ Located at UM-St. Louis campus

Psychology

* Jared M. Bruce*, assistant professor of psychology; B.A. (University of Maine); M.S., Ph.D. (Pennsylvania State University).

*Carl Calkins*, professor of psychology; B.A. (State University of New York); M.A. (Southern Connecticut State College); Ph.D. (Vanderbilt University).

*Delwyn Catley*, associate professor of psychology; Bachelor of Commerce (University of the Witwatersrand, Johannesburg, South Africa); M.S. (Purdue University); Ph.D. (State University of NY at Stony Brook).

*Terri D. Conley*, assistant professor of psychology; B.A. (University of Wisconsin-Madison); M.A., Ph.D. (University of California, Los Angeles).

*Diane L. Fillion*, chair, department of psychology, and associate professor of psychology; B.A. (Eastern Washington University); M.A., Ph.D. (University of Southern California).

*Linda S. Garavalia*, associate professor of psychology; B.A. (Clemson University); MA, Ph.D. (University of Southern California).

Leah K. Gensheimer, associate professor of psychology; B.S. (University of New Haven); M.A. (Adelphi University); Ph.D. (Michigan State University).

*Kathleen J. Goggin*, associate professor of psychology; B.A. (California State University, Dominguez Hills); Ph.D. (San Diego State University/University of California, San Diego).

*Joseph B. Hughy*, professor of psychology; B.A., M.A. (Wichita State University); Ph.D. (University of Tennessee).

*Christopher Lovelace*, assistant professor of psychology; B.A. (Wake Forest University); M.A., Ph.D. (American University).

*Jennifer Lundgren*, assistant professor of psychology; B.S. (Oklahoma State University); M.A., Ph.D. (University at Albany, State University of New York).

Robert Christ Martin, professor of psychology; B.A., M.A., Ph.D. (University of Florida).

*Tamera Burton Murdock*, associate professor of psychology; B.A., M.S. (University of Pennsylvania); Ph.D. (University of Delaware).

*Joshua Robinowitz*, assistant professor of psychology; B.A., M.A., Ph.D. (University of California, Los Angeles).

*Melisa Rempler*, assistant professor of psychology; B.S. (University of Iowa); M.A., Ph.D. (University of Kansas).

*Marne L. Sherman*, assistant professor of psychology; B.A. (Carroll College); M.S., Ph.D. (Finch University of Health Sciences/The Chicago Medical School).

*Lisa Terra*, associate professor of psychology and medicine; B.A. (Rutgers University); M.A. (Roosevelt University); Ph.D. (Auburn University).

**SOCIAL WORK**

* Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
Members of UMKC Doctoral Faculty

Located at UM-St. Louis Campus

Graduate Social Work

* Jeffrey S. Bennett; assistant professor of anthropology and religious studies; B.A. (University of Washington); M.A., Ph.D. (University of Chicago).
* Linda M. Breytspraak; chair, department of sociology, and associate professor of sociology and medicine; B.A. (Colorado College); M.A., Ph.D. (Duke University).
C. Neil Bull; professor emeritus of sociology; B.A., M.A. (University of British Columbia); Ph.D. (University of Oregon).
Henry G. Burger; professor emeritus of education and anthropology; B.A., M.A., Ph.D. (Columbia University).
Thomas E. Carroll; associate professor emeritus of sociology; B.A. (Indiana University); M.A., Ph.D. (University of Minnesota).
Burton Halpert; associate professor of sociology and medicine; B.A. (Duke University); M.A. (University of Manitoba); Ph.D. (University of Minnesota).
Jennifer Huberman; assistant professor of anthropology; B.A. (Boston University); M.A., Ph.D. (University of Chicago).
Shannon Jackson; associate professor of anthropology; B.A., M.A. (University of Connecticut); Ph.D. (University of Chicago).
Sookhee Oh; assistant professor of sociology; B.A. (Ewha Woman's University, Korea); M.C.P. (Seoul National University, Korea); Ph.D. (Milano Graduate School of Management and Urban Policy, The New School).
Philip G. Olson; professor of sociology; B.A., M.A. (University of Arizona); Ph.D. (Purdue University).
Peter M. Singlemann; professor of sociology; B.A. (University of Hamburg-Germany); Ph.D. (University of Texas).
Deborah Smith; associate professor of sociology and director of family studies; B.S., Ph.D. (Cornell University); M.A. (University of Minnesota).
Theresa L. Torres; assistant professor of anthropology and religious studies; B.A. (Benedictine College); M.A. (Boston College); O.S.B. (Order of St. Benedict); Ph.D. (Catholic University of America).

Sociology

Sociology

THEATRE

THEATRE

Theatre

Erika Bailey; assistant professor of theatre; B.A. (Williams College); M.F.A. (Brandeis University); M.A. (Central School of Speech and Drama).
Lindsay Davis; associate professor of theatre; B.A. (Harvard College); M.F.A. (New York University-Tisch School of the Arts).
Jeff Dreisbach; adjunct associate professor of theatre; B.F.A. (Wayne State University).
John Exell; Hall Family Foundation Professor of Design; B.F.A. (Washington University); M.F.A. (Yale University).
Gene Friedman; assistant professor of theatre.
Charles Hayes; assistant professor of theatre; B.A. (Augustana College); M.F.A. (University of Iowa).
Gary Holcombe; assistant professor of theatre; B.A. (Morehead State University); M.M. (Indiana University); D.M.A. (University of Maryland).
Don Hovis; visiting assistant professor of technical production; B.F.A. (Missouri Southern State College); M.F.A. (University of Missouri-Kansas City).
Ricardo Khan; visiting professor of theatre (director, new project development); honorary doctorate (Rutgers University).
Barry Kyle; professor of theatre arts; M.A. (University of Birmingham-U.K.).
Felicia Londre; curators’ professor of theatre; B.A. (University of Montana); M.A. (University of Washington-Seattle); Ph.D. (University of Wisconsin-Madison).
Greg Mackender; instructor of theatre sound design and composition.
Tom Mardikes; chair, department of theatre, and professor of theatre; B.A., M.F.A. (University of Missouri-Kansas City).
Jennifer K. Martin; Hall Family Foundation Professor of Movement; B.S. (Bowling Green State University); M.F.A. (University of North Carolina-Greensboro); Ph.D. (University of Michigan).
Patricia A. McCorle; adjunct professor of theatre; B.A. (Douglass College-Rutgers University); M.A. (New York University).
Carla Noack; visiting assistant professor of theatre; B.A. (College of St. Benedict); M.F.A. (University of Missouri-Kansas City).
Sarah M. Oliver; visiting assistant professor of theatre; B.F.A. (Kansas City Art Institute); M.F.A. candidate (University of Missouri-Kansas City).
Ronald Lee Schaeffer; associate professor of theatre; B.S. (Bradley University); M.A. (University of Missouri-Kansas City).
Theodore Swetz; The Patricia McIrath Endowed Professor of Theatre Arts in Acting; B.A. (Lehman College of the City University of New York).
Victor Tan; associate professor of theatre.
SCHOOL OF BIOLOGICAL SCIENCES

@ Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
# Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

#*Karen J. Bane, assistant programs officer and associate professor of biological sciences; B.S. (University of California-Santa Barbara); Ph.D. (University of California-Los Angeles).

Dmitry Belotostsky, associate professor of biological sciences; M.Sc. (Kiev State University); Ph.D. (USSR Academy of Sciences, Moscow).

James M. Benevides, research assistant professor of biological sciences; B.S. (University of Massachusetts); M.S., Ph.D. (University of Rhode Island).

*Samuel Bouyain, assistant professor of biological sciences; Diploma of Engineer (École Nationale Supérieure de Chimie de Paris); D.Phil. (University of Oxford).

Raymond L. Burich, associate professor emeritus of biological sciences; B.S., M.S. (Kent State University); Ph.D. (Iowa State University).

Gerald M. Carlson; adjunct professor of biological sciences; B.S. (Washington State University); Ph.D. (Iowa State University).

Julia Chekova, assistant professor of biological sciences; M.S. (Moscow State University); Ph.D. (USSR Academy of Sciences, Moscow).

#*Bibie M. Chronwall, associate professor of biological sciences; B.A., M.S., Ph.D. (University of Upsala, Sweden).

#*Leonard L. Dobens, Jr., associate professor of biological sciences; B.S. (Boston College); Ph.D. (Dartmouth College).

#*Lawrence A. Dretyus, dean, school of biological sciences, and professor of biological sciences; B.A. (University of Kansas); M.S. (Michigan State University); Ph.D. (University of Kansas).

Alfred F. Esser, professor emeritus; M.S., Ph.D. (J.W. Goethe University, Germany).

#*Michael B. Ferrari, associate professor of biological sciences; B.A. (Kansas State University); Ph.D. (University of Texas-Austin).

@Mark T. Fisher; adjunct professor of biological sciences; Ph.D. (University of Illinois-Urbana).

David R. Garris, lecturer in biological sciences; B.S. (Eastern Michigan University); Ph.D. (Wayne State University).

#*Brian V. Geisbrecht, assistant professor of biological sciences; B.S. (St. Vincent College); Ph.D. (The Johns Hopkins University School of Medicine).

Erika R. Geisbrecht; assistant professor of biological sciences; B.S. (University of Wisconsin-Madison); Ph.D. (The Johns Hopkins University School of Medicine).

*Edward P. Gogol, research assistant professor of biological sciences; B.S. (Cornell University); M. Phil., Ph.D. (Yale University).

R. Scott Hawley; adjunct professor of biological sciences; Ph.D. (University of Washington).

#*George M. Helmkamp, Jr.; adjunct professor of biological sciences; Ph.D. (Harvard University).

#*Saul M. Honigberg, associate professor of biological sciences; B.S. (University of Georgia); Ph.D. (Yale University).

#*Chi-Ming Huang, associate professor of biological sciences; B.S. (National Taiwan University, Taiwan); M.S., Ph.D. (University of California-Los Angeles).

Alexander Idrum, assistant professor of biological sciences; B.S., Ph.D. (University of Melbourne).

Ana J. Iriarte, associate professor emeritus of biological sciences; M.S., Ph.D. (University of Navarre, Spain).

Chris L. Jordan, instructor in biological sciences; B.S. (Central Missouri State University), M.S. (Purdue University); Ed.S. (University of Missouri-Kansas City).

Tamas Kapros, research assistant professor of biological sciences; B.S., Doctor Universitatis in Genetics, Ph.D. (Jozsef Attila University of Sciences, Szeged, Hungary).

J. Andrew Keightley, research assistant professor of biological sciences; B.S., Ph.D. (University of New Mexico-Albuquerque).

#*Stephen J. King, associate professor of biological sciences; B.S. (Cornell University); Ph.D. (University of Colorado-Boulder).

#*John H. Laiti, associate professor of biological sciences; B.A. (Rutgers University); M.S. (Columbia and Cornell Universities); Ph.D. (Cornell University).

Douglas Law; teaching specialist in biological sciences; B.S., Ph.D. (Duke University).

Lee Likins, lecturer in biological sciences; B.S. (University of West Florida-Pensacola); M.A. (University of Kansas).

#Ronald A. MacQuarrie, dean, school of graduate studies, and professor of biological sciences; B.S. (University of California-Berkeley); Ph.D. (University of Oregon).

Marino Martinez-Carrion; professor and dean emeritus of biological sciences; B.A., M.A., Ph.D. (University of California-Berkeley).

Joseph R. Mattingly, Jr., teaching specialist in biological sciences; B.A. (Bellarmine College); Ph.D. (University of Notre Dame).

Kevin McCluskey, research associate professor in biological sciences; B.S., M.S. (Stanford University); Ph.D. (Oregon State University).

#*Thomas M. Meneses, associate professor of biological sciences; B.S., M.S. (University of California Irvine); Ph.D. (Yale University).

#*Henry M. Miziorko, head, molecular biology and biochemistry division, Missouri Professor in Structural Biology and professor of biological sciences; B.S. (St. Joseph's University); Ph.D. (University of Pennsylvania).

William T. Morgan; professor emeritus of biological sciences; B.S. (University of Pittsburgh); Ph.D. (University of California-Santa Barbara).

#*Michael O'Connor; associate professor of biological sciences; B.A. (Trinity College Dublin); Ph.D. (National University of Ireland).

Stacey A. Overman, research assistant professor of biological sciences; B.A. (Northwestern); Ph.D. (University of Missouri-Kansas City).


Lynda S. Plamann, director of curriculum and associate professor of biological sciences; B.A. (Augustana College); Ph.D. (University of Iowa).

#*Michael Plamann, associate professor of biological sciences; B.S. (University of Wisconsin); Ph.D. (University of Iowa).

#*Jeffrey L. Price; associate professor of biological sciences; B.S. (College of William and Mary); Ph.D. (Johns Hopkins University).

#*G. Sullivan Read, interim head, cell biology and biophysics division and associate professor of biological sciences; B.A. (Williams College); M.S. (Yale University); Ph.D. (Pennsylvania State University).

Aaron Reed; research assistant professor of biological sciences; B.S. (Kansas State University); M.S. (University of Memphis); Ph.D. (Kansas State University).

Garth E. Resch, associate professor of biological sciences; B.A., M.A., Ph.D. (University of Missouri-Columbia).

#*Ann Smith, professor of biological sciences; B.Sc. (University of Hull, England); Ph.D. (University of London, England).

#*George J. Thomas, Jr., curators' professor of biological sciences; B.S. (Boston College); Ph.D. (Massachusetts Institute of Technology).
Quang-Kim Tran, research assistant professor of biological sciences; M.D. (University of Medicine and Pharmacy, Ho Chi Minh City, Vietnam); Ph.D. (Hammamatsu University School of Medicine, Japan).

#*Jakob H. Waterborg, associate professor of biological sciences; B.S., M.S., Ph.D. (Katholieke Universiteit Nijmegen, The Netherlands).

Tammy S. Welchert, student services coordinator in biological sciences; B.S., M.S. (Southwest Missouri State University); Ed.S. (University of Missouri-Kansas City).

#*Gary J. Wyckoff, assistant professor of biological sciences; B.S. (Cornell University); Ph.D. (University of Chicago).

@Lynwood R. Yarbrough, adjunct professor of biological sciences; Ph.D. (Purdue University).

#*Marilyn Yoder, associate professor of biological sciences; B.S. (University of Kentucky); Ph.D. (University of California-Riverside).

#*Yu, Xiao-Qiang (Sean), associate professor of biological sciences; Ph.D. (Kansas State University).

HENRY W. BLOCH SCHOOL OF BUSINESS AND PUBLIC ADMINISTRATION

* Members of UMKC Graduate Faculty

# Members of UMKC Doctoral Faculty

#*Arif Ahmed, assistant professor of health administration; B.D.S. (Dhaka Dental College); M.S.P.A., Ph.D. (University of Illinois - Urbana-Champaign).

Latheff N. Ahmed, professor emeritus of public administration; B.A. (University of Mysore); M.A., Ph.D. (University of Kansas).

#*Rajinder Arora, Schutte Professor of Marketing and chair, Department of Organizational Behavior, Leadership and Marketing; B.S., M.S. (University of Southern California); Ph.D. (Claremont Graduate School).

Roy E. Baker, professor emeritus of accounting; B.S., M.B.A. (University of Kansas); D.B.A. (Harvard University); C.P.A.

Brian L. Belt, professor emeritus of business and public administration; B.I.E., M.S.I.E (Ohio State University); M.B.A. (Texas Christian University); Ph.D. (University of North Texas).

#*Lee G. Bolman, interim dean, Bloch School and Marion H. Bloch/Missouri Endowed Chair in Leadership; B.A. (Yale College); Ph.D. (Yale University).

Gene Brown, Valentine Radford/Missouri Endowed Professor in Marketing; B.S. (Florida Institute of Technology); M.A., Ph.D. (University of Alabama).

#*Rita M. Cain, professor of business law; B.A. (Rockhurst University); J.D. (University of Kansas).

#*David W. Cornell, associate professor of accounting; B.S. (University of Kentucky); M.B.A. (Eastern Kentucky University); Ph.D. (Louisiana State University); C.P.A., C.M.A.

Philip Crossland, associate professor of business; B.A. (Avila College); M.A., Ph.D. (University of Nebraska).

#*Nancy Day, associate professor of human resources; B.S. (Missouri State University); M.A. (University of Missouri-Kansas City); Ph.D. (University of Kansas).

#*Stephen A. Delurgio, professor of operations management; B.S. (University of Missouri-Rolla); M.B.A., Ph.D. (St. Louis University).

Sameeksha Desai, assistant professor of entrepreneurship and innovation; B.S. (Northwestern University); M.S., A.B.D. (George Mason University).

#*David Donnelly, professor of accounting; B.B.S.A., M.B.A. (Kansas State University); Ph.D. (University of Illinois); C.P.A.

#*Shad Dowlatshahi, professor of operations management; B.S. (Tehran, Iran); M.B.A. (Emporia State University); M.S. (University of Missouri-Columbia); Ph.D. (University of Iowa).

William B. Eddy, dean emeritus, Bloch School, and professor emeritus; B.S., M.S. (Kansas State University); Ph.D. (Michigan State University).

Nolen M. Ellison, professor emeritus of public administration; B.S. (University of Kansas); Ph.D. (Michigan State University).

#*Joan Gallos, professor of leadership; B.A. (Princeton University); M.Ed., Ed.D. (Harvard University).

#*J. Randall Gardner, professor of accounting; A.B. (Harvard University); M.B.A., J.D. (University of Kansas); LL.M., (University of Missouri-Kansas City); C.P.A.; C.F.P.

#*Larry R. Garrison, professor of accounting; B.B.A. (University of Central Missouri); M.S. (University of Missouri-Kansas City); Ph.D. (University of Nebraska-Lincoln); C.P.A.

*Burton Halpern, associate professor of sociology and joint professor in the Department of Public Affairs; B.A. (Drake University); M.A. (University of Manitoba); Ph.D. (University of Minnesota).

Richard A. Hamilton, associate professor emeritus of direct marketing; B.S. (Otterbein College); M.B.A. (Bowling Green State University); D.B.A. (Kent State University).

#*Fred H. Hays, Carl W. Allendoerfer Professor of Banking and Finance; B.B.A., M.S. (Baylor University); Ph.D. (Louisiana State University).

#*Robert D. Herman, professor of organizational behavior; B.A. (Kansas State University); M.S., Ph.D. (Cornell University).

Jack D. Heysinger, dean emeritus, Bloch School, and professor emeritus of law and administration; B.A., J.D. (University of Iowa); LL.M. (University of Michigan).

Karl F. Johnson, professor emeritus of public administration; B.B.A., M.P.A. (University of Missouri-Kansas City); Ph.D. (University of Oregon).

Jae C. Jung, assistant professor of international business; B.A., M.B.A. (Korea University, Seoul); Ph.D. (University of Western Ontario).

#*Jim-Mo Kim, assistant professor of finance; B.B.A. (Korea University); Ph.D. (Michigan State University).

LaVern E. Krueger, professor of accounting and interim chair, Department of Accountancy; B.S. (University of Wisconsin - Whitewater); M.S.B.A. (University of Denver); D.B.A. (University of Colorado); C.P.A.

#*David Kuipers, associate professor of finance; B.S. (Iowa State University); M.S. Finance (University of Houston-Clear Lake); Ph.D. (University of Missouri-Columbia).

Dirk Lubaers, assistant professor of entrepreneurship and innovation; B.S. (Free University of Brussels); M.B.A. (The George Washington University); M.S. (University of Sussex, Brighton, United Kingdom); A.B.D. (Georgia Institute of Technology).

Neil E. McNiel, associate professor emeritus of accounting; B.S. (University of Kansas); M.B.A. (University of Pittsburgh); D.B.A. (Harvard University); C.M.A.

Alfred N. Page, professor emeritus of management, finance, and communication studies; B.A. (Macalester College); M.B.A., Ph.D. (University of Chicago).

#*Mark Parry, Ewing Marion Kauffman/Missouri Endowed Chair in Entrepreneurial Leadership and professor of marketing; B.A. (Metropolitan State College); M.A. (University of Texas-Arlington); Ph.D. (University of Texas-Dallas).

Carla Pavone, assistant professor of entrepreneurship and innovation; B.A. (University of Pennsylvania); M.B.A. (Harvard University); Ph.D. (University of Minnesota).

#*Nicholas Carl Peroff, professor of public affairs and administration; B.S., M.A., Ph.D. (University of Wisconsin-Madison).

#*Roger A. Pick, professor of management information systems; B.S. (University of Oklahoma); M.S., Ph.D. (Purdue University).

George E. Pinches, professor emeritus of business economics and finance; B.S.S., M.B.A. (Oklahoma State University); Ph.D. (Michigan State University).

N. Neel Proctor, associate professor emeritus of organizational behavior and administration; B.A., M.A. (University of Texas); Ph.D. (Louisiana State University).

#*Stephen W. Pruitt, Arvin Gottlieb/Missouri Endowed Chair in Business Economics and Finance; B.S. (Purdue University); M.B.A. (Ohio State University); Ph.D. (Florida State University).

#*David O. Renz, director of the Midwest Center for Nonprofit Leadership, Beth K. Smith/Missouri Endowed Chair in Nonprofit Leadership and chair, Department of Public Affairs; B.S., M.A., Ph.D. (University of Minnesota).

Leon Robertson, professor of strategic and international management; B.S., M.S. (Georgia Institute of Technology); Ph.D. (Georgia State University).

Probir Roy, associate professor emeritus of quantitative analysis; B.S. (Indian School of Mines); M.B.A. (Indian Institute of Management); Ph.D. (University of Cincinnati).
Walter J. Rychlewski III, visiting professor of entrepreneurship; B.S.E.E., M.S.E.E., Ph.D. (University of Missouri-Columbia).

Bernard Sarachek, professor emeritus of cultural administration; B.A., M.A. (University of Missouri-Kansas City); Ph.D. (University of Illinois).

Robert D. Schrock, professor emeritus of finance; B.A. (McPherson College); M.A., Ph.D. (University of Kansas).

Eleanor Brantley Schwartz, chancellor emerita, UMKC, and dean emerita, Bloch School, and professor emeritus of business and public administration; B.A.A., M.B.A., D.B.A. (Georgia State University).

Joseph F. Singer, professor of business operations and analysis; B.S. (Morningside College); M.B.A. (University of Missouri-Kansas City); Ph.D. (University of Arkansas).

Georgia Smedley, assistant professor of accounting; B.A. (Mesa College); M.S.A. (University of Arkansas); Ph.D. (Oklahoma State University).

Lanny M. Solomon, associate dean of academic affairs, Bloch School, and professor of accounting; B.S. (Miami University); M.B.A., Ph.D. (Case Western Reserve University); C.M.A.

Lisa Z. Song, assistant professor of entrepreneurship and innovation; M.S., Ph.D. (Cornell University).

Michael Song, Charles N. Kimball, MRI/Missouri Endowed Chair in Management of Technology and Innovation and professor of marketing; B.S. (Jinan University); M.S. (Cornell University); M.B.A., Ph.D. (University of Virginia).

Marilyn L. Taylor, Arvin Gottlieb/Missouri Endowed Chair of Strategic Management and chair, Department of Finance, Information Management and Strategy; B.A. (University of South Florida); M.B.A., D.B.A. (Harvard University).

Robyne Turner, Victor E. and Caroline E. Schutte/Missouri Endowed Professor of Urban Affairs; B.A., M.A., Ph.D. (University of Florida).

Sidne G. Ward, associate professor of management information systems; B.A., M.B.A. (University of Oklahoma); Ph.D. (University of California-Los Angeles).

Nancy Weatherholt, associate professor of accounting; B.S.B., M.B.A., Ph.D. (University of Kansas).

Edwin H. White, professor emeritus of law and administration; A.B., J.D. (University of Missouri-Columbia); M.A. (University of Missouri-Kansas City).

Walter B. Wright, dean emeritus of continuing education and extension, and dean emeritus, Bloch School, and professor emeritus of business administration; B.A. (University of Iowa); M.B.A. (University of Kansas).

**SCHOOL OF COMPUTING AND ENGINEERING**
Department of Civil and Mechanical Engineering

#*Bryan R. Becker, assistant professor; B.S. (University of Missouri-Rolla); M.S. (University of Missouri-Columbia); Ph.D. (University of Tennessee-Knoxville); P.E.
Katherine H. Bloemker, assistant teaching professor; B.S., M.S. (Stanford University)
C. Quinton Bowles; professor emeritus; B.S., M.S. (University of Missouri-Kansas City); Ph.D. (Delft University of Technology, the Netherlands); (retired).
Michael A. Carlson, adjunct instructor; B.S. (North Dakota State University), M.S. (University of Kansas); P.E.
David Christianson, instructor; B.S. (South Dakota State University); M.B.A (University of Missouri).
Lawrence Drbal, assistant professor; B.S. (University of Nebraska); M.S., Ph.D. (Kansas State University).
#*Brian A. Frick, assistant professor; B.S., M.S., Ph.D. (University of Missouri-Kansas City).
Tushar K. Ghosh, professor of nuclear engineering; B.S. (Jadavpur University, India); M.S. (University of Calgary, Canada); Ph.D. (Oklahoma State University); (primary appointment, MU College of Engineering).
#*Trent M. Guess, assistant professor; B.S. (University of Kansas); M.S. (Colorado State University); Ph.D. (University of Kansas).
Robert Hanlin, assistant instructor; B.S., M.S. (Colorado School of Mines); F.E.
Steve Hague, assistant instructor; B.S., M.S. (Texas A&M University); P.E.
George F.W. Hauck; former executive director, coordinated engineering program, and professor emeritus; B.Arch., M.Arch E. (Oklahoma State University); Ph.D. (Northwestern University); P.E., (retired).
#*Wei Ji, associate professor of geosciences; B.S., M.S. (Peking University); Ph.D. (University of Connecticut); (primary appointment: College of Arts and Science).
Dan Justice, assistant professor; B.S. (University of Missouri-Rolla); M.S., Ph.D. (University of Texas-Austin).
Michael Kelly, instructor; B.S. (University of Missouri-Rolla).
Thomas Kimes, instructor; B.S. (University of Missouri-Kansas City).
#*Greg King, assistant professor; B.S., M.S., Ph.D. (University of Kansas).
Robert Lambbrechts, assistant professor; B.S., M.S. (University of Missouri-Columbia); J.D. (St. Louis University).
Rudolph L. Leutzinger Jr., former director, general engineering program, and associate professor emeritus; B.A. (Iowa State College); M.E. (University of Michigan); Ph.D. (University of Iowa); P.E. (Retired).
#*Pei-Wei Lin, assistant professor; B.S., M.S., (National Chiao-Tung University); Ph.D. (University of Maryland).
Forrest G. Lowe, visiting associate professor; B.S. (Northwest Missouri State University); M.S. (Texas Christian University); Ed.D. (Nova Southeastern University); P.E.
James F. Mahoney Jr., assistant instructor; B.S., M.S. (University of Missouri-Columbia/Kansas City); P.E.
Mark F. McClenon, chair, department of civil and mechanical engineering, and associate professor; B.S. (Rockhurst University); M.S., Ph.D. (University of Notre Dame); P.E.
#*Anil Misra, professor; B.Tech. (Indian Institute of Technology, India); M.S., Ph.D. (University of Massachusetts); P.E.
#*Deborah J. O'Donnell, associate professor; B.S. (Massachusetts Institute of Technology); E. Eng. (Manhattan College); Ph.D. (University of Iowa); P.E.
Mark A. Prelas; professor of nuclear engineering; B.S. (Colorado State University); M.S.; Ph.D.(University of Illinois, Urbana-Champaign); (primary appointment: MU College of Engineering); (joint appointment).
#*Jerry E. Richardson, associate professor; B.S., M.S., Ph.D. (Colorado State University); P.E.
Pete Scheuer, instructor; M.S. (Michigan State University).
Donald R. Smith; founding director, coordinated undergraduate engineering program, and former executive director, coordinated engineering program, and associate professor emeritus; B.S. (Kansas State University); M.S. (United States Air Force Institute of Technology); M.A., Ph.D. (University of Colorado); P.E. (Retired)
William E. Stewart, Jr.; professor emeritus; B.S., M.S., Ph.D. (University of Missouri-Rolla); P.E. (Retired)
#*Ganesh Thagiarajan, assistant professor; B.Tech., M.Tech. (Indian Institute of Technology-Madras); Ph.D. (Louisiana State University-Baton Rouge).
Scott Yerganian, instructor; B.S. (University of Missouri-Columbia); M.S., (University of Missouri-Kansas City/Columbia).

Department of Computer Science and Electrical Engineering

#*Cory Beard, assistant professor; B.S., M.S. (University of Missouri-Columbia); Ph.D. (University of Kansas).
@Chengpeng (Charlie) Bi, assistant professor; B.S. (Central China Agricultural University); M.S. (Beijing Agricultural University); M.E., Ph.D,(Pennsylvania State University). Primary Affiliation: Children's Mercy Hospital
Eddie Burris, lecturer; M.S. (Michigan State University).
#*Deb Chatterjee, associate professor; B.E.Tel.E. (Jadavpur University, India); M.Tech. (India Institute of Technology-Kharagpur, India); M.A.Sc. (Concordia University, Canada); Ph.D. (University of Kansas).
#*Ghulam M. Chaudhry, professor; B.S. (University of Punjab, Pakistan); M.S. (B.Z. University, Pakistan); M.S., Ph.D. (Wayne State University).
#*Baek-Young Choi, assistant professor; B.S. (Pusan National University, Korea); M.S. (Pohang University of Science and Technology, Korea); Ph.D. (University of Minnesota).
Robert Cotter, visiting assistant professor; B.S. (Northwestern University); Ph.D. (University of Missouri-Kansas City).
#*Reza Derakhshani, assistant professor; B.S. (Iran University of Science and Technology); M.S., Ph.D. (West Virginia University).
#*Deependal "Dinkar" Dinakarpandian, assistant professor; M.D. (Jawaharlal Institute of Post-Graduate Medical Education and Research, Pondicherry, India); Ph.D. (Case Western Reserve University); M.S. (University of Missouri-Kansas City).
Oleg Gusak, visiting assistant professor; B.S., M.S. (Kharkov University of Radio and Electronics, Ukraine); Ph.D. (Bilkent University, Turkey).
#*Yijie Han, associate professor; B.S. (University of Science and Technology China), Ph.D. (Duke University).
Brian Hare, instructor; M.S. (University of Houston and University of Missouri-Kansas City).
#*Lei Harn, professor; B.A. (National Taiwan University); M.S. (University of New York at Stony Brook); Ph.D. (University of Minnesota).
Richard G. Hetherington, founding director, computer science program, and professor emeritus; B.A. (Brothers College, Drew University); M.S., Ph.D.(University of Wisconsin-Madison).
Mark Hieber, instructor; B.S. (Purdue University); M.S. (University of Missouri-Kansas City).
Mary Lou Hines Fritts, research professor, CIO and vice provost for academic programs; B.S., M.S., Ph.D. (Kansas State University).
Mark Hoffman, assistant adjunct professor; B.A. (William Jewell); Ph.D.(University of Wisconsin - Madison). Primary Affiliation: Cerner
SCHOOL OF DENTISTRY

Associate or Adjunct Graduate Faculty
Members of UMKC Graduate Faculty
Members of UMKC Doctoral Faculty
Located at UM-St. Louis campus

Richard J. Ackerman; professor emeritus; D.D.S., M.S., Certificate, Pediatric Dentistry (University of Missouri-Kansas City); Certificate, Orthodontics and Dentofacial Orthopedics (Forssyth Dental Center); Certificate, Postdoctoral Research Fellowship (Harvard University).

Tina L. Allen; clinical instructor; B.S.D.D.H.(University of Missouri-Kansas City).

Robert H. Altomare; clinical assistant professor; D.D.S. (University of Missouri-Kansas City); M.S. (University of Minnesota).

Cynthia Amyot; professor; B.S.D.D.H., M.S.D., Ed.D. (University of Missouri-Kansas City).

James L. Andrews; professor emeritus; D.D.S., Certificate, Oral and Maxillofacial Surgery (The Ohio State University); Diplomate, American Board of Oral and Maxillofacial Surgery.

Dan Ang; clinical assistant professor; D.D.S. (University of Alberta); Certificate GPR (Truman Medical Center), Certificate Oral and Maxillofacial Radiology, Certificate Periodontics, M.S. (University of Missouri-Kansas City)

Robert Augsburger; clinical assistant professor; M.S.D., (George Washington University) D.D.S. (University of California-San Francisco) Diplomate, American Board of Endodontics.

Brad Babcock; clinical assistant professor; D.D.S. (University of Nebraska).

Bruce F. Barker; professor emeritus; D.D.S. (University of Michigan); Certificate, Oral Pathology (University of Southern California); Diplomate, American Board of Oral Pathology.

Gerry J. Barker; clinical assistant professor; B.S. (University of Michigan); M.A. (University of Missouri-Kansas City).

Hayley Barker; clinical assistant professor; B.S.D.D.H. (University of Missouri-Kansas City).

James Beatty; clinical assistant professor; D.D.S. (Ohio State University), Certificate GPR (VA Cleveland, OH); Certificate Prosthodontics (University of Missouri-Kansas City, VA Medical Center)


Steve Billings; clinical assistant professor; D.D.S., Certificate, Orthodontics(University of Missouri-Kansas City).

Marsha Black; assistant professor; B.S.D.D.H., M.S. (University of North Carolina-Chapel Hill).

Dan L. Blackwell; clinical assistant professor; D.D.S., Certificate, Orthodontics (University of Missouri-Kansas City).

Brenda S. Bohaty; clinical assistant professor; D.D.S., Certificate, Orthodontics (University of Nebraska); M.S.D., Certificate, Pediatric Dentistry (Baylor College of Dentistry), Diplomate, American Board of Pedodontics.

Lynda F. Bonewald; Curators' Professor; Dr. William L. Lefkowitz/Missouri Endowed Professor in Oral Biology; B.S. (University of Missouri-Kansas City), M.S., Ph.D. (University of Missouri-Nebraska-Lincoln).

Ann Marie Corry; dental librarian and associate professor; B.A. (Washburn University); M.A.L.S. (University of Denver); M.A. (University of Missouri-Kansas City).

John Coyle; clinical assistant professor; B.A. (Pittsburg State University); M.A. (University of Northern Iowa).

Robert D. Cowan; professor emeritus; D.D.S. (University of Michigan); M.S., Certificate, General Dentistry (University of Texas-Houston).

Bob E. Craven; clinical assistant professor; D.D.S. (University of Missouri-Kansas City) Diplomate, American Board of Orthodontics.

Ana K. Crawford; clinical assistant professor; D.D.S. (Baylor College of Dentistry).
Frank H. Crist, clinical assistant professor; D.D.S., Certificate, Orthodontics (University of Missouri-Kansas City).
Christopher G. Cumming, professor; B.D.S., Ph.D. (University of Edinburgh); C.Biol., MIBiol. (Institute of Biology, England); Assoc. Pathologist (Royal College of Pathologists); FDSRCS (Royal College of Surgeons); D.M.D. (University of Pennsylvania).

Kevin Cunningham, clinical assistant professor; D.D.S., Certificate Endodontics (University of Missouri-Kansas City).

Sarah L. Dallas, associate professor; B.S. Anatomical Studies (University of Birmingham); Ph.D. (University of London).


Richard T. Darnall, clinical assistant professor; D.D.S. (University of Missouri-Kansas City), Diplomate, American Board of Oral and Maxillofacial Surgery.

Donna N. Deines, associate professor; A.B. (Drury College); D.D.S., M.S., Certificate, Prosthodontics (University of Missouri-Kansas City).

Nidya O. De La Torre, clinical assistant professor; D.D.S. (Pontificia Universidad Javeriana, Bogota, Colombia), Certificate – Pedodontics (Howard University).

L. Sue Dobbs, clinical instructor; B.S., B.S.D.H., D.D.S. (University of Missouri - Kansas City), M.S. (University of Missouri).

Kathryn M. Dockter, clinical assistant professor; B.S.D.H.; M.S. (University of Missouri-Kansas City).

John A. Dorsch, clinical assistant professor; D.D.S., M.S. (University of Missouri-Kansas City) Certificate, Orthodontics (University of Iowa), Diplomate, American Board of Orthodontics.

James A. Dryden, associate professor; D.D.S., M.S. (University of Missouri-Kansas City).

Charles L. Dunlap, professor emeritus; D.D.S., Certificate, Oral Pathology (University of Missouri-Kansas City); Diplomate, American Board of Oral Pathology.

Shara M. Dunlap, clinical assistant professor; D.D.S. (University of Missouri-Kansas City).

Vance J. Dykhhouse, clinical assistant professor; D.D.S., M.S., Certificate, Orthodontics (University of Missouri-Kansas City).

A.C. Edwards, clinical assistant professor; D.D.S. (University of Missouri – Kansas City).

Mark C. Edwards, clinical assistant professor; D.D.S. (University of Nebraska).

J. David Eick, curators' professor; B.S. (University of Michigan); M.S. (George Washington University); Ph.D. (State University of New York).

Dean A. Elledge, associate professor; B.S. (Missouri Southern State College); D.D.S. (University of Missouri-Kansas City); M.S. (University of Minnesota).

Sally A. Elledge, clinical assistant professor; B.S.D.H., M.S. (University of Missouri-Kansas City).

Susan Ellis, clinical assistant professor; D.D.S., (University of Missouri-Kansas City).

Edgar J. Ellyson, assistant dean for business affairs and associate clinical professor; M.B.A., Ph.D. (University of Missouri-Kansas City).

C. Weldon Elof, clinical associate professor; D.M.D. (Medical College of Georgia); Certificate, Prosthodontics (Walter Reed Army Medical Center); Diplomate, American Board of Prosthodontics.

Harvey C. Epie, assistant dean for clinical programs, patient & facilities management, associate professor; B.S. (Kansas State University); D.D.S. (University of Missouri-Kansas City); M.P.A. (University of Kansas); M.J. (Loyola University).

Toni L. Erickson, instructor; B.S.D.H. (University of Missouri-Kansas City).

E. Grant Eschselman, clinical assistant professor; A.B. (Franklin-Marshall College); M.S. (University Missouri-Kansas City); D.D.S. (Columbia University).

George Euler, clinical assistant professor; D.D.S., (University of Missouri-Kansas City).

Philip H. Fei, professor emeritus; B.A. (Sir George Williams University); M.S. (State University of New York); Ed.D. (Indiana University).

Brett L. Ferguson, clinical associate professor; B.S. (Lane College); D.D.S., Certificate, Oral and Maxillofacial Surgery (University of Missouri-Kansas City); Diplomate, American Board of Oral and Maxillofacial Surgery.

David J. Ferguson, associate professor emeritus; D.D.S., Certificate Prosthodontics (University of Missouri-Kansas City).

Gerald L. Foley, clinical assistant professor; D.D.S. (University of Missouri-Kansas City).

Lynn Roosa Friesen, clinical assistant professor; B.S. (Kansas State University); D.D.S. (University of Missouri-Kansas City).

Sharon A. Furby, clinical assistant professor; RPh, D.D.S. (University of Texas-Houston).

Frank B. Gardner, clinical assistant professor; D.D.S. (Temple University).

Lester M. Gates, professor emeritus.

Catherine Geisendorf, clinical assistant professor; B.S.D.H. (University of Missouri-Kansas City).

Ronald E. Gier, professor emeritus; B.S. (Kansas State University); D.M.D. (Washington University); M.S.D. (Indiana University).

John A. Gilbert; associate professor emeritus; D.M.D. (University of Oregon); (Washington University); M.L.A. (Baker University).

Alan G. Glaros, professor emeritus; A.B. (Stanford University); Ph.D. (State University of New York).

Jeffrey W. Glasgow, clinical assistant professor; Nurse Anesthesia, (Kansas University Medical Center).

J. Jeffrey P. Gorski, professor; B.Sc-Chemistry; Ph.D.-Biochemistry (University of Wisconsin-Madison); postdoctoral fellowship in molecular immunology (Scripps Clinic and Research Foundation).

Eric Gottman, clinical assistant professor; D.D.S. (University of Missouri-Kansas City); Certificate, Prosthodontics (University of Missouri-Kansas City).

Edward Grimes, clinical assistant professor; D.D.S. (Washington University) Diplomate, American Board of Endodontics.

Reem N. Haj-Ali, assistant professor; B.D.S. (University of Jordan); Certificate GPR (University of Missouri-Kansas City, Truman Medical Center) Certificate Prosthodontics, D.D.S., University of Missouri-Kansas City).

Scott D. Hamilton, clinical assistant professor; D.D.S. (University of Missouri-Kansas City) M.S.D. (Baylor University) Diplomate, American Board of Orthodontics.

Carrie Jackson, clinical assistant professor; B.S.D.H., M.A., (Northern Arizona University).

Patrick K. Hardman, professor emeritus; B.S. (Fort Hays State University); D.D.S., M.S., Certificate, Oral Diagnosis/Oral Medicine (University of Missouri-Kansas City).

Dennis L. Harper, clinical assistant professor; M.S.D., (St. Louis University) D.D.S., Diplomate, American Board of Orthodontics.

Terrance B. Harris; associate professor emeritus; B.S. (University of Kansas); D.D.S., M.S., Certificate, Oral Diagnosis/Oral Medicine (University of Missouri-Kansas City).

John I. Haynes, professor; B.S., D.D.S., M.A. (University of Missouri-Kansas City).

James K. Hocott; associate professor emeritus; B.S. (Kansas State University); D.D.S. (University of Missouri-Kansas City).

Ann M. Hoffman, clinical instructor; B.S.D.H., (University of Missouri-Kansas City).

Lyndal G. Holmes; associate professor emeritus; B.S. (Drury College); D.D.S., M.S., Certificate, Periodontics (University of Missouri-Kansas City).

Lori Holt, associate professor; B.S., M.S. (University of Missouri-Kansas City).

Liang Hong, clinical assistant professor; D.D.S. (West China University of Medical Science), M.S. Dental Public Health, Ph.D. Oral Science, Certificate, Operative Dentistry and Dental Public Health (University of Iowa); Certificate, Dental Public Health (Nih).
Gregory C. Houston \footnotemark[4], clinical assistant professor; B.S. (University of Missouri); D.D.S. (University of Missouri-Kansas City).

Donald Mowry \footnotemark[5], clinical assistant professor; B.A. (University of Iowa, Iowa City, IA); D.D.S., M.S., Prosthodontics; Certificate Fixed Prosthodontics (University of Iowa).

Shirley H. Hung \footnotemark[6], associate professor; D.D.S. (National Taiwan University); M.S. (University of Missouri-Kansas City); D.D.S. (University of Southern California-Los Angeles).

Laura R. Iwasaki \footnotemark[7], associate professor; B.Sc., (University of Alberta, Edmonton, Alberta); Certificate - Orthodontics (Fairleigh Dickinson University).

Stephen Jenkins \footnotemark[8], clinical assistant professor; D.D.S., Certificate Endodontics (University of Missouri-Kansas City).

Eric Johnson \footnotemark[9], clinical assistant professor; B.A. (University of Missouri); D.D.S. (University of Missouri - Kansas City); Certificate – Orthodontics (Fairleigh Dickinson University).

Gregory Johnson \footnotemark[10], clinical assistant professor; B.S. (Fort Hays State University); D.D.S. (University of Missouri-Kansas City); M.A. (Antioch University).

Mark Johnson \footnotemark[11], professor; B.S. (University of Minnesota-Minneapolis); Ph.D. Biochemistry (University of Minnesota Mayo Graduate School of Medicine-Rochester).

Ryan Johnson \footnotemark[12], clinical assistant professor; B.A. (Drury College); D.D.S. (University of Missouri-Kansas City).

Valerie Johnson \footnotemark[13], clinical assistant professor; B.S.D.H., M.S. Dental Public Health (University of Iowa).

David Jones \footnotemark[14], clinical assistant professor; B.A. (Southern Methodist University); D.D.S., M.S.D. (University of Texas Dental Branch-Houston).

Jay J. Jones \footnotemark[15], clinical assistant professor; B.S., D.D.S. (University of Missouri-Kansas City).

Paul A. Jones \footnotemark[16], clinical assistant professor; D.D.S. (University of Missouri-Kansas City).

Thomas A. Jones \footnotemark[17], clinical assistant professor; B.A. (University of Kansas); D.D.S. (University of Missouri - Kansas City).

Michael Kahler \footnotemark[18], clinical assistant professor; D.D.S. (University of Missouri-Kansas City).

Jerald O. Katz \footnotemark[19], associate professor; B.S. (Albright University); D.M.D. (University of Pittsburgh); M.S. (University of Texas); Diplomate, American Board of Oral and Maxillofacial Radiology.

Nancy Kelsey \footnotemark[20], associate professor; B.S. (University of Maryland); M.A. (Simon Fraser University).

John K. Kiesendahl \footnotemark[21], clinical assistant professor; D.D.S. (University of Missouri-Kansas City).

John W. Killoy \footnotemark[22], assistant dean for student programs and clinical professor; B.S. (Northern Arizona University); D.D.S. (University of Missouri-Kansas City).

William J. Killoy \footnotemark[23], professor emeritus; D.D.S. (Creighton University); M.S. (University of Texas-Houston); Diplomate, American Board of Periodontology.

Marvin Kramer \footnotemark[24], associate professor; D.D.S. (Creighton University).

James C. Kulild \footnotemark[25], professor; D.D.S. (University of Missouri-Kansas City); M.S. (George Washington University); Diplomate, American Board of Endodontics.

Vandana Kumar \footnotemark[26], assistant professor; B.S.D. (Rohtak, India), M.S. Conservative Dentistry (Punjab Government Dental College, India), M.S. oral and Maxillofacial Radiology (University of North Carolina-Chapel Hill); Diplomate-Oral and Maxillofacial Radiology.

John Lask \footnotemark[27], clinical assistant professor; D.D.S.; Certificate Endodontics (University of Missouri-Kansas City).

Leonard L. Lausten \footnotemark[28], clinical assistant professor; M.Sc. (McGill University); D.D.S. (Toronto, Canada).

Charley C. Lee \footnotemark[29], associate professor; D.D.S. (Hubei Dental School); M.S. (Beijing University); M.S. (New Jersey University of Medicine and Dentistry); D.D.S. (University of Missouri-Kansas City).

Ruohong Liu \footnotemark[30], clinical assistant professor; D.D.S. (West China University of Medical Sciences, Chengdu, Sichuan, China); Certificate - Prosthodontics, M.S., Ph.D. (Ohio State University).

James W. Lowe \footnotemark[31], professor emeritus; A.B. (William Jewell College); D.D.S., M.S. (University of Missouri-Kansas City); Diplomate, American Board of Pedodontics.

Simon R. MacNeill \footnotemark[32], associate professor; B.D.S. (King’s College, London); D.D.S. (University of Missouri-Kansas City); Certificates, General Dentistry, General Practice, Periodontics (Louisiana State University); Diplomate, American Board of Periodontology.

Deborah S. Manne \footnotemark[33], clinical assistant professor; B.S., (University of Missouri-Kansas City); M.S.N. (St, Louis University).

Steven A. Mantegani \footnotemark[34], clinical assistant professor; B.A. (William Jewell College); D.D.S. (University of Missouri-Kansas City).

Patricia L. Martinette \footnotemark[35], clinical instructor; A.S. (Columbus State University Columbus, GA), B.S.D.H. (University of Missouri - Kansas City).

Moncy Mathew \footnotemark[36], clinical assistant professor; B.D.S. (Bangalore University, India); M.P.H.(University of Michigan); dental public health residency (New York State Department of Health, Bureau of Dental Health, SUNY, Albany, NY).

Paul T. Matlock \footnotemark[37], clinical assistant professor; D.D.S. (University of Missouri-Kansas City).

Joy Wylie Matthews \footnotemark[38], clinical assistant professor; B.A. (Kansas State University); D.D.S. (University of Missouri-Kansas City).

William E. Mayberry \footnotemark[39], professor emeritus; A.B. (Washington University); M.S. (Southern Illinois University); Ph.D. (University of Illinois).

Eric Mayuga \footnotemark[40], clinical assistant professor; D.D.S. (University of Missouri-Kansas City); Certificate GPR (VA Medical Center, Kansas City).

Carole P. McArthur \footnotemark[41], clinical assistant professor; B.S. (Fort Hays State University); D.D.S. (University of Missouri-Kansas City)

Joyce A. McIlveen \footnotemark[42], professor; B.S.C., Ph.D. (University of Otago); M.D. (University of Missouri-Kansas City).

Michael D. McEwen \footnotemark[43], associate professor; B.S. (Creighton University); M.S. (University of Iowa); D.D.S. (University of Missouri-Kansas City).

Jacob McGuire \footnotemark[44], clinical assistant professor; D.D.S. (University of Missouri-Kansas City); Certificate Endodontics (University of California-Los Angeles).

Susan D. McIlvain \footnotemark[45], clinical assistant professor; B.S. (Central Missouri State University); D.D.S. (University of Missouri-Kansas City); M.S. (University of Kansas).

Gary D. McReynolds \footnotemark[46], clinical assistant professor; B.S., D.D.S. (University of Missouri-Kansas City).

Robert M. Menchetti \footnotemark[47], clinical assistant professor; D.D.S. (University of Missouri-Kansas City).

Tanya V. Mitchell \footnotemark[48], assistant professor; B.S., M.S. (University of Missouri-Kansas City).

Behjat K.H. Moghadam \footnotemark[49], professor; D.D.S. (Tehran University); D.S.D., Certificate, Advanced Graduate Study in Oral Medicine (Boston University); D.D.S. (University of Missouri-Kansas City).

David L. Moore \footnotemark[50], professor emeritus; B.S. (Oklahoma State University); D.D.S., M.A., M.S. (University of Missouri-Kansas City).

Dorsey Moore \footnotemark[51], HGB Robinson professor emeritus; D.D.S. (University of Missouri-Kansas City).

Catherine A. Mowry \footnotemark[52], clinical assistant professor; B.A. (University of Kansas); D.D.S., Certificate – Periodontics (University of Missouri - Kansas City).

Kurt Muehlebach \footnotemark[53], clinical assistant professor; D.D.S. (University of Missouri-Kansas City).

Stephanie Mullins \footnotemark[54], clinical assistant professor; D.D.S., Certificate - Periodontics (University of Missouri - Kansas City).

Nancy L. Newhouse \footnotemark[55], clinical assistant professor; B.A. (University of Missouri-Columbia); D.D.S., Certificate, Periodontics (University of Missouri-Kansas City).

Jeffrey C. Nickel \footnotemark[56], associate professor; D.M.D., M.S., Certificate - Orthodontics, Ph.D. (University of Manitoba, Winnipeg, Manitoba).

Daniel C. Nielson \footnotemark[57], clinical assistant professor; B.S. (University of Missouri-Kansas City).

Jerry Ogilvie \footnotemark[58], clinical assistant professor; D.D.S. (University of Missouri-Kansas City).

James Osborne \footnotemark[59], clinical assistant professor; B.S. (Central Missouri State University); D.D.S., Certificate – Orthodontics (University of Missouri - Kansas City).

Pamela R. Overman \footnotemark[60], associate dean for academic affairs and associate professor; B.S.D.H., M.S. (University of Missouri-Kansas City); Ed. D. (University of Kansas).
Laura Walden-Pollina; clinical assistant professor; D.D.S., Certificate – AEGD (University of Missouri - Kansas City).

Mary P. Walker; associate professor; M.S., (North Dakota State); D.D.S. (University of Nebraska); Ph.D. (University of Missouri-Kansas City).

Jeff Walmann; D.D.S., Certificate – Endodontics (University of Missouri - Kansas City).

Charles Waltafft; professor emeritus.

Chrisanthia Brown; associate professor of education; B.S. (University of California at Los Angeles); M.S. (California State University-Long Beach); Ph.D. (University of Missouri-Kansas City).

Elizabeth (B.J.) Confer; associate professor of education; B.S. (University of California at Los Angeles); M.S. (California State University-Long Beach); Ph.D. (University of Missouri-Kansas City).

Jerry L. Cooper; associate professor of education; B.S. (University of Missouri-Kansas City); M.S. (University of Iowa).

Benjamin Warner; professor emeritus; D.D.S. (University of Missouri-Kansas City).

William R. Watson; clinical assistant professor; D.D.S., Certificate – Endodontics (University of Iowa).

Loyce Caruthers; associate professor; D.S.D. (University of Missouri-Kansas City); M.S. (University of Iowa).

Judith K. Carlson; associate professor; D.D.S. (University of Missouri-Kansas City); M.S. (University of Iowa).

Joseph P. Caliguri; professor; B.S. (Loyola Marymount University); D.D.S. (University of Missouri-Kansas City).

Henry G. Burger; associate professor; D.S.D. (University of Missouri-Kansas City); M.S. (University of Iowa).

LaVerne A. Berkel; associate professor; D.D.S., Certificate – Endodontics (Broke Army Medical Center); Diplomate, American Board of Prosthodontics.

Mary Phyl Dwight; visiting assistant professor; B.S. (Southwest Missouri State University); M.S. (University of Missouri-Kansas City); M.S. (Central Methodist College); M.Ed., Ed.D. (University of Missouri-Columbia).
# Academic Librarians

ACADEMIC LIBRARIANS

R. G. Williamson; professor emeritus of education; B.S. (Northeast Missouri State University); M.S. (Central Missouri State University); Ph.D. (University of Missouri-Kansas City).

Joseph L. Wolff; professor emeritus of education; B.A. (University of Chicago); M.A., Ph.D. (Indiana University).

## School of Law

@ Associate or Adjunct Graduate Faculty

* Members of UMKC Graduate Faculty

# Members of UMKC Doctoral Faculty

+ Located at UM-St. Louis campus

Jasmine Abdel-Khalik; associate professor of law; B.A. (Cornell University); J.D. (University of Michigan).

David J. Achtenberg; professor of law and law foundation scholar; B.A. (Harvard University); J.D. (University of Chicago).

William B. Anderson; professor emeritus; B.A. (University of Missouri-Columbia).

#* David N. Atkinson; associate dean, school of law, and professor of law; B.S. (City University of New York); J.D. (Brooklyn Law School); M.S. (University of Denver).

William K. Black; associate professor of economics and law; A.B., J.D. (University of Michigan); Ph.D. (University of California at Irvine).

Bruce Bubacz; curators' professor of philosophy and professor of law; B.A. (Columbia College); M.S., Ph.D. (University of Washington-Seattle).

Paul D. Callister; associate professor of law and director, law library; B.A. (Bingham Young University); J.D. (Cornell Law School); M.S. in Library & Information Science (University of Illinois at Urbana-Champaign).

June Rose Carbone; professor emeritus; B.A., J.D. (University of Nebraska).

Julie M. Cheslik; associate professor of law; B.A., J.D. (University of Iowa).

Corinne Cooper; professor emeritus of law; B.A., J.D. (University of Arizona).

Robert C. Downs; professor of law; B.A. (Kansas State University); J.D. (University of Missouri-Kansas City).

William G. Eckhardt; teaching professor of law and director of urban affairs outreach; B.A. (University of Mississippi); LL.B. (University of Virginia).

Kenneth D. Ferguson; associate professor of law; B.A. (Drake University); J.D. (O.W. Coburn School of Law).

Robert H. Freilich; professor emeritus of law; B.A. (University of Chicago); master of international affairs (Columbia University); J.D. (Yale University); LL.M., J.S.D. (Columbia University).

Barbara A. Glesner-Fines; associate dean and rubey m. hulen professor of law; B.Ph. (Grand Valley State College); J.D. (University of Wisconsin); LL.M. (Yale University).

Francis M. Hanna; professor of law; B.Ed. (Chicago State University); J.D. (Northwestern University).

Chris Holman; associate professor of law; B.A. (California State University, Hayward); Ph.D. (University of California, Davis); J.D. (Boalt Hall).

Edwin T. Hood; ruby m. hulen professor emeritus; B.B.A., J.D. (University of Iowa); LL.M. (New York University).

Christopher R. Hoyt; professor of law; B.A. (Northwestern University); M.S., J.D. (University of Wisconsin); C.P.A.

Mary K. Kisthardt; professor of law; B.A. (King's College); J.D. (Dickinson State College); LL.M. (Yale University).

Kris Kobach; professor of law; B.A. (Harvard University); Ph.D., M.Phil. (Oxford University); J.D. (Yale School of Law).

John Q. LaFond; assistant professor of law; B.A. Smith/Missouri emeritus chair in law, the constitution and society; B.A. (Princeton University); J.D. (Yale Law School).

Nancy Levit; curators' and Edward D. Ellison professor of law; B.A. (Bates College); J.D. (University of Kansas).

Douglas O. Linder; emeritus senior faculty scholar and professor of law; B.A. (Gustavus Adolphus College); J.D. (Stanford University).

Anthony J. Lupino; associate professor of law and director, LL.M. tax program; A.B. (Dartmouth College); J.D. (Stanford Law School); LL.M (Boston University School of Law).

Eric A. Martin; assistant clinical professor of law and director of bar services and academic support; B.A.(Williams College); J.D. (University of Michigan).

Andre V. Menoens; associate professor of law; B.A. (Chicago-Kent College of Law); LL.M. (Northwestern University).

Tiffany Murphy; assistant clinical professor of law and legal director, midwestern innocence project; B.A. (University of Michigan); J.D. (University of Michigan).

Sean D. O'Brien; associate professor of law; B.A., J.D. (University of Missouri State University); J.D. (University of Missouri-Kansas City).

Mary Kay O'Malley; clinical professor and director of child family services clinic; B.A. (St. Mary-of-the-Woods College); J.D. (Washburn University); M.A. (University of Missouri-Kansas City).

Colin Benjamin Pick; professor of law and daniel i. brener/umkc scholar; B.A. (Bowdoin College); J.D. (Yale Law School).

Judith Popper; associate clinical professor of law; B.A. (Agnes Scott College); J.D. (University of Missouri-Kansas City).

John W. Ragland Jr.; William p. boreland distinguished faculty scholar and professor of law; B.A. (Middlebury College); J.D. (University of Colorado); LL.M. (University of Missouri-Kansas City); S.J.D. (Northwestern University).

Patrick A. Randolph Jr.; emeritus professor of law; B.A. (Yale University); J.D. (University of California-Berkeley).

Allen K. Rostron; associate professor of law; B.A. (University of Virginia); J.D. (Yale Law School).

John Scullock; professor emeritus of law; B.A., LL.B. (University of Kansas); S.J.D. (University of Michigan).

Judith A. Sharp; staff director entrepreneurial legal services clinic and clinical professor of law; B.A. (Stephens College); M.A. (Bowling Green (Ohio) State University); J.D., LL.M. (University of Missouri-Kansas City).

Ellen Y. Sun; dean, school of law; and marvin rich faculty scholar and professor of law; B.A. (City College of New York); J.D. (Boston University).

Wanda M. Temm; clinical professor of law and director, legal writing and bar services; B.A. (Ottawa University); M.S. (Purdue University); J.D. (University of Kansas).

Jeffrey Thomas; associate dean and professor of law; B.A. Loyola Marymount University; J.D. (University of California-Berkeley).

Mikah K. Thompson; associate professor of law; B.S. (Southwest Missouri State University); J.D. (Washington University School of Law).

Daniel Weddle; clinical professor and director of academic support; B.S. (University of Kansas); J.D. (University of Kansas).

Barbara Wilson; associate professor of law; B.A. (University of Missouri - Columbia); M.A. (University of Nebraska); J.D. (University of Missouri - Columbia).

Judith Frame Wiseman; teaching professor and associate director of LL.M. tax program; B.B.A. (University of Wisconsin); J.D. (University of Tulsa); LL.M. (New York University).
Stephen P. Alleman; librarian III; head of collections; B.A. (Tulane University); M.L.S. (Louisiana State University); M.A. (University of New Orleans).

Christine A. Angolia; librarian II; reference librarian; B.A. (Hartwick College); M.P.A. (New York University); M.L.S. (State University of New York, Albany).

Patricia H. Bickers; librarian II; monographic acquisitions librarian; B.A. (Hanover College); M.A., Ph.D. (Ball State University); M.L.S. (Indiana University).

Sharon L. Bostick; dean of libraries; B.A. (Oakland University); A.M.L.S. (University of Michigan); Ph.D. (Wayne State University).

Amrita J. Burdick; librarian III; clinical medical/reference librarian and adjunct faculty of school of medicine; B.A. (University of Nebraska); M.A.L.S. (University of Missouri-Columbia); M.A. Ed. (University of Missouri-Kansas City).

Paul D. Callister; director, Leon E. Bloch Law Library, and associate professor of law; B.A. (Brigham Young University); J.D. (Cornell Law School); M.S.L.I.S. (University of Illinois at Urbana-Champaign).

Marsha G. Carothers; librarian I; assistant dental librarian; B.A. (University of Missouri-Kansas City); M.A. (University of Missouri-Columbia); M.A. (University of Missouri-Kansas City).

Ann Marie Corry; librarian IV; dental librarian and associate professor; B.A. (Washburn University); M.A.L.S. (University of Denver); M.A. (University of Missouri-Kansas City).

Brenda L. Dingley; librarian II; assistant director for technical services and collections; B.A. (Indiana University); A.M.L.S. (University of Michigan-Ann Arbor).

Laura Gayle Green; librarian IV; music/media librarian and adjunct faculty of conservatory of music and dance; B.M. (Ashland College); M.A. (University of Virginia); M.L.S. (Indiana University).

Kathleen Hall; librarian I; director of public services, Leon E. Bloch Law Library; B.A. (Central Michigan University); J.D.(Marshall-Wythe School of Law, College of William & Mary); M.I.S.L.T. (University of Missouri-Columbia).

Elizabeth R. Henry; librarian II; assistant director for public services and special collections; B.A. (Park College); M.L.S. (University of Missouri-Columbia).

Tracey Hughes; librarian I; dental instructional resources librarian/reference librarian; B.S (McPherson College); M.A. (University of Missouri).

Diane K. Hunter; librarian II; head of reference services and library instruction; A.B. (Indiana University); M.S. (Georgetown University); M.L.S. (Ball State University).

Phill Johnson; librarian I; associate director and director of electronic services, Leon E. Bloch Law Library; B.S. (Missouri Southern State University); J.D.(Washburn University); M.S.L.I.S. (University of Illinois at Urbana-Champaign).

Chris Le Beau; librarian II; clinical instructor and reference librarian; B.A. (Marymount College); M.L.S. (Long Island University); M.B.A. (Creighton University).

Lawrence D. MacLachlan; librarian III; director of research and instructional services, Leon E. Bloch Law Library; B.A., J.D. (Wayne State University); M.L.S. (Catholic University of America).

Peggy Mullaly-Quijas; librarian II; assistant director for the health sciences libraries and adjunct faculty of school of medicine; B.S. (Fordham University); M.I.S.L.T. (University of New York at Albany), Ph.D. (Walden University).

Melissa A. Muth; librarian I; reference coordinator/reference librarian; B.A.(Indiana State University); M.L.S. (Indiana University).

Buddy D. Pennington; librarian I; serial acquisitions librarian; B.S., B.S., M.L.S. (University of Missouri-Columbia).

Bonnie Postlethwaite; librarian IV; associate dean of libraries; B.S.E. (University of Kansas); B.A. (University of Kansas); M.A. (University of Kansas); M.L.S. (University of Illinois).

Rebecca Power; librarian I; reference librarian; B.A. (Smith College); M.L.S. (Southern Connecticut State University).

Susan U. Sanders; librarian I; clinical medical librarian/reference librarian; B.A. (Montclair State University); M.L.S. (Emporia State University).

Kathleen A. Schweitzberger; librarian III; principal catalog librarian; B.S. (University of Kansas); M.L.S. (Emporia State University); M.P.A. (University of Missouri-Columbia).

Wendy A. Sistrunk; librarian II; catalog librarian; B.M. (Kansas State University); M.M. (Arizona State University); M.S. (Simmons College).

Marlene B. Smith; librarian II; Medical School multimedia learning lab manager; B.A. (University of Missouri-Kansas City); M.A. (University of Missouri-Columbia).

Nancy D. Stanciak; librarian IV; director of technical services, Leon E. Bloch Law Library; B.S. (Florida Atlantic University); M.A.L.S. (University of Missouri-Columbia); Ph.D. (University of Missouri-Kansas City).

Susan Sykes Berry; librarian II; health sciences library instruction reference librarian and adjunct faculty of school of nursing; B.S. (University of Florida); M.A. (University of Iowa).

Cynthia Marie Thompson; librarian I; interlibrary loan reference librarian; B.A. (William Jewell College); M.A. (University of Missouri-Columbia).

Gloria L. Tibbs; librarian II; information commons/reference librarian; B.A., M.L.S. (Emporia State University).

Fu Zhuo; librarian III; library instruction coordinator/reference librarian; B.A., M.A. (Wuhan University); M.Ed. (University of Western Ontario); M.L.S. (University of Alberta).

SCHOOL OF MEDICINE

Louise M. Arnold; associate dean and director of the Office of Medical Education and Research and professor of medicine and sociology; A.B. (University of North Carolina); Ph.D. (Cornell University).

Paul G. Cuddy; senior associate dean for academic affairs; associate dean for curriculum and professor of medicine; B.S. (Massachusetts School of Pharmacy); Pharm.D. (University of Missouri-Kansas City).

Diana Dark; associate dean for St. Luke’s programs and professor of medicine; B.A./M.D. (University of Missouri-Kansas City).

Richard J. Derman; professor and associate dean clinical research; Schutte chair in Medicine Leadership/Women’s Health; M.D. and M.P.H. (Howard University).

E. Grey Dimond; founder, school of medicine, and provost emeritus, health sciences, and professor emeritus for the health sciences and distinguished professor of medicine; B.S., M.D. (Indiana University).

Betty M. Drees; dean, school of medicine, and professor of medicine; B.A. (Wichita State University); M.D. (University of Kansas).

John W. Foxworth; chairman; president; B.S., B.S., Pharm.D.(University of Missouri-Kansas City).

Rob Hornstra; associate dean for Western Missouri Mental Health Center programs and assistant professor of medicine; B.A., M.D. (University of Missouri-Columbia).

Kevin J. Kelly; associate dean for Children’s Mercy programs, chairman, Department of Pediatrics, and Joyce C. Hall Distinguished Professor of Pediatrics; B.A. (Marquette University); M.D. (Loyola University of Chicago).

Jill A. Moormeier; associate dean for Graduate Medical Education and associate professor of medicine; B.S. (Stanford University); M.D. (University of Nebraska College of Medicine).

Alan R. Salkind; associate dean and chairman for the Council on Selection and professor of medicine; B.A. (California State University); M.D. (East Tennessee State).

Reaner G. Shannon; associate dean of cultural enhancement and diversity (Minority Affairs) and associate professor of medicine; B.A. (Park College); Ph.D. (University of Missouri-Kansas City).

Mark Steele; associate dean for Truman Medical Center programs and associate professor of medicine; B.A./M.D. (University of Missouri-Kansas City).

Bob I. Yang; assistant dean and chairman of the Council on Evaluation and associate professor of basic medical science; B.S. (California Polytechnic State University); Ph.D. (Iowa State University).

David Wooldridge; chairman for faculty council and assistant professor of medicine; B.A./M.D. (University of Missouri-Kansas City).
Rose Zwerenz — assistant dean for Truman Medical Center East programs and associate professor of medicine; B.A./M.D. (University of Missouri-Kansas City).

**CONSERVATORY OF MUSIC**

© Associate or Adjunct Graduate Faculty
* Members of UMKC Graduate Faculty
# Members of UMKC Doctoral Faculty
+ Located at UM-St. Louis campus

**Marita Abner** — adjunct assistant professor of music (bassoon); B.A. (Swarthmore College); M.M. (Yale University).

**Olga Ackerly** — associate professor of music (musicology); B.M., M.M. (Manhattan School of Music); M.A., M.Ph., Ph.D. (University of Kansas).

**Inci Bashar** — professor emeritus of music (voice); B.B. (University of Istanbul); (Istanbul’s Civic Conservatory of Music); (Hochschule fur musik, Munich); (Ankara State Opera Studio). (Former member of the Cologne, Dortmund and Istanbul state operas.)

**Shirley Bean** — associate professor emeritus of music (music theory); B.M.E. (University of Kansas City); M.M., D.M.A. (University of Missouri-Kansas City).


**Keith Benjamin** — associate professor of music (trumpet); B.M.E. (Morningide College); M.M. (University of Northern Iowa); D.M.A. (Eastman School of Music). (Member of Missouri Brass Quintet.)

**Barbara Bishop** — visiting assistant professor of music (choral); B.M.E. (University of Northern Colorado); M.M. (conducting) (Westminster Choir College of Rider University); D.M.A. (University of Missouri-Kansas City).

**Linda Ross Happy** — associate professor of music (bassoon); B.A. (Luther College); M.M. (Michigan State University). (Member of Missouri Brass Quintet.)


**Richard Cass** — distinguished teaching professor emeritus of music (piano); B.A. (Furman University); (Ecole Normale de Musique, Paris.)

**Chen Yi** — Lorena Searcy Craven Millisap Endowed Professor in Composition; B.A., M.A. (Central Conservatory of Music, Beijing); D.M.A. (Columbia University).

**Un Chong Christopher** — adjunct assistant professor of music (voice); B.M., M.M. (University of Missouri-Kansas City).

**Mark E. Clark** — teaching associate (piano technician); B.M. (University of Texas-Austin); (Registered piano technician).

**JoDee Davis** — assistant professor of music (trombone); B.M., M.M. (University of Northen Iowa); D.M. (Indiana University). (Member of Missouri Brass Quintet.)

**Steven D. Davis** — associate professor of music (conducting, wind symphony); B.M.E. (Florida State University); M.M. (University of Minnesota)

**Anne B. DeLaunay** — associate professor of music (voice, music/ opera literature); B.M., M.M., D.M.A. (Louisiana State University).

**John A. Ditto** — associate professor of music (organ); B.M. (Drake University); M.M. (University of Michigan); Performer’s Certificate, D.M.A. (Eastman School of Music). (Concert management with Phyllis Stingham, Waukecha, Wisconsin.)

**Eph Ehly** — professor emeritus of music (choral music, conducting); B.A. (Keanre State College); M.A. (George Peabody College for Teachers); D.M.A. (University of Colorado).

**Beth Loebner Elswick** — adjunct assistant professor of music (theory); B.A. (Southwest Missouri State University); B.M. (University of Arizona); M.S.Ed. (Southwest Missouri State University); D.M.A. (University of Missouri-Kansas City).

**Carter Enyear** — Rose Ann Carr Millisap/Missouri Endowed Professor in Cello; B.M. (Eastman School of Music); M.M. (Carnegie-Mellon University).

**William Everett** — associate professor of music (musicology and area coordinator, music history/musicology and chair, division of composition, music theory, and musicology; B.M. (Texas Tech University); M.M. (Southern Methodist University); Ph.D. (University of Kansas).

**Raymond Feener** — assistant professor of music (voice); B.M., M.M. (Ohio University); D.M. (Florida State University).

**Hali Fieldman** — associate professor of music (musicology); B.M. (Peabody Conservatory of Music); M.A., M.M. (Eastman School of Music); Ph.D. (University of Michigan).

**William E. Fredrickson** — associate dean for academic affairs and associate professor of music (music education); B.M. (State University College of New York at Fredonia); M.M. (Syracuse University); Ph.D. (Florida State University).

**Andrew Granade** — assistant professor of music (musicology); B.M. (Duashita Baptist University); M.M., Ph.D. (University of Illinois).

**Robert W. Groene II** — associate professor of music (music therapy) and interim associate dean, academic affairs and director of music therapy; B.S., M.A., Ph.D. (University of Minnesota).

**Gustavo R. Halley** — associate professor of music (voice); B.A. (Jacksonville University); M.M., D.M. (Florida State University).

**Alexander W. Hamilton** — associate professor emeritus of music (music education); B.S.E., M.Ed., (University of Arkansas); D.M.A. (University of Texas at Austin).

**Deanna Hansen-Abromeit** — assistant professor of music (theater); B.M.A., M.A. (University of Iowa).

**Linda Ross Happy** — associate professor emeritus of music (class piano); B.M.E. (University of Nebraska); M.M. (Northwestern University); D.M.A. (University of Colorado).

**Paul Hatton** — adjunct associate professor of music (violin); (Juilliard School); (North Carolina School of the Arts).

**Milton G. Hehr** — professor emeritus of music (music theory, music history and literature); B.M. (Jordan College of Fine Arts of Butler University); M.M., Ph.D. (Boston University).

**Mary Pat Henry** — chair of dance and associate professor of dance (ballet); B.F.A. (University of Utah); M.F.A. (Florida State University).

**Patricia Higdon** — teaching assistant, accompanist (piano sight reading); B.M. (Houghton College); M.M. (Cleveland Institute of Music).

**Benny Kim** — associate professor of music (violin); B.M., M.M. (Juilliard School).

**Tiberius Klausner** — professor emeritus of music (violin); Diploma (National Academy of Music, Budapest); Premier Prix (Conservatoire National de Musique, Paris); Diploma (The Juilliard School). Member of Volker String Quartet.

**Richard C. Knoll** — professor emeritus of music (voice); (University of Denver); (Northwestern University); Chicago Lyric Opera; Lyric Opera of Kansas City.

**Karen Kushnere** — adjunct associate professor of music (piano); B.M. (Northwestern University); M.M. (Juilliard School).

**Wanda Latham-Radocy** — professor emeritus of music (violin); B.M.E., M.E.E, Ph.D. (University of Kansas).

**Scott Lee** — assistant professor of music (viola); B. M. (The Juilliard School); M.M. (Mannes College of Music).

**John R. Leisenring** — professor emeritus of music (trombone/jazz studies); B.M., M.M. (University of Wisconsin-Madison); D.M.A. (University of Wisconsin-Madison).

**Kenneth Lidge** — adjunct assistant professor of music (theory); B.M. E. (University of Wisconsin-Eau Claire); M.M. (University of Illinois-Champaign); D.M.A. (University of Missouri-Kansas City).

**Martha Holmes Longmire** — professor emeritus of music (voice); B.M. (Southern Methodist University); Advanced study with Lotte Lehmann, John Charles Thomas.

**Mary Jo Lorek** — adjunct assistant professor of music (theory); B.M. (University of North Carolina); M.M. (University of Kentucky); Ph.D. (Florida State University).
SCHOOL OF NURSING

Sabrina Madison-Cannon, assistant professor of dance (modern); B.F.A. (National Academy of Arts); M.F.A. (University of Iowa).

#*John McIntyre, professor of music (piano); Artist Diploma (University of Toronto); M.M. (Boston University); Graduate study (Paris Conservatory).

@Jennifer Medina, visiting assistant professor of dance (modern); B.F.A. (University of Missouri-Kansas City); M.F.A. (University of Iowa).

#*James Mobberley, curators' professor of music (composition); B.A., M.M. (University of North Carolina at Chapel Hill); D.M.A. (Cleveland Institute of Music).

Dale Morehouse, associate professor of music (voice, opera); B.A. (University of Central Florida); M.M. (Binghamton University).

@John A. Mueter, teaching assistant, accompanist, (foreign language for singing); B.M. (Hartt School of Music); M.A. (Washington State University).

Laura Noy, adjunct professor of music (music theory); B.A. (Delta State University); M.M. (New Mexico State University).

#*Douglas Niedt, associate professor of music (guitar); B.M. (University of Missouri-Kansas City); (Studied with Segovia, Ghiglia, Yepes, Morel and Parkening. Records with Antigua Records.)

#*Robert Olson, professor of music (conducting, orchestra); B.M. (Northern Illinois University); M.M. (Michigan State University); D.M.A. (University of Washington).

#*Michael Pagan, assistant professor of music (jazz studies); B.M., M.A. (Kent State University); D.M. (Northwestern University).

#*Joseph Parisi, assistant professor of music (music education, instrumental music); B.M. (State University College of New York at Potsdam); M.M. (Florida State University); Ph.D. (Florida State University).

Randall G. Pembrook, dean, conservatory of music, and professor of music (music education); B.M., M.M. (Southern Illinois University); Ph.D. (Florida State University).

Marian F. Petersen, professor emeritus of music (theory); B.A. (San Francisco State University); M.M., Ph.D. (University of Utah).

#*Diane Petrella, assistant professor of music (piano, piano pedagogy); B.M. (Eastern Illinois University); M.M. (University of Wisconsin-Madison); D.M.A. (University of North Texas).

@LeRoy Pogemiller, interim dean emeritus, conservatory of music, and professor emeritus of music (music history and literature); B.M., M.M. (Conservatory of Music of Kansas City); D.M.A. (University of Missouri-Kansas City).


Ruth Anne Rich, professor emeritus of music (piano); B.M. (Florida State University); M.M. (Peabody Conservatory of Music); D.M.A. (Eastman School of Music); Diplome de Virtuosite (Schola Cantorum, Paris); License d’Enseignement (Ecole Normale de Musique, Paris); Licentiatatship in Piano Performance (Royal Academy of Music, London).

Natalia Rivera, teaching assistant, accompanist, (foreign language for singing); B.M. (New England Conservatory); M.A. (University of Minnesota).

#*Sheri Robb, associate professor of music (music therapy); B.M. (Florida State University); M.E. (Auburn University); Ph.D. (University of Kansas).

#*Charles R. Robinson, chair of music education/music therapy and professor of music (music education, choral music); B.M.E., Ph.D. (Florida State University); M.A. (California State University, Long Beach).

#*Paul Rudy, associate professor of music (composition); B.A. (Bethel College); M.M. (University of Colorado, Boulder, Co); D.M.A. (The University of Texas at Austin).

Merton Shatzkin, professor emeritus of music (music theory); Diploma (The Juilliard School); M.M., Ph.D. (Eastman School of Music).

#*Rebecca Sherburn -Bly, associate professor of music (voice); B.M. (California State University, Los Angeles); M.M. (University of Southern California); D.M.A. (University of Southern California).

#*Reynold Simpson, associate professor of music (theory); B.M. (Peabody Conservatory of The Johns Hopkins University); M.F.A. (Princeton University); M.M., D.M.A. (The Juilliard School).

#*James Snell, assistant professor of music (percussion); B.M. (University of Illinois); M.M. (Southern Methodist University); D.M.A. (University of Missouri-Columbia).

#*Jane Soles, associate professor of music (piano/harpischord); B.M. (University of Toronto); M.M., D.M.A. (Eastman School of Music).

Joan Sommers, professor emeritus of music (accordion); Associate Diploma and Licentiate Diploma (Accordion Institute of America in conjunction with the British College of Accordionists).

Paul Sommers, professor emeritus of music (voice); D.M.A. (University of Illinois).

#*Thomas Stein, associate professor of music (tuba, euphonium); B.M., M.M. (University of Michigan, Ann Arbor). (Member of Missouri Brass Quintet.)

Sue Stubbs, adjunct assistant professor of music (double bass); B.M. (Juilliard School); M.M. (University of Missouri).

Kent Swafford, teaching assistant (piano technician); (Registered piano technician).

#*Timothy Timmons, chair of instrumental studies and associate professor of music (saxophone); B.M. (University of Tulsa); M.M. (Northwestern University).

@Sarah Tyrrell, adjunct assistant professor of music (musicology); B.A. (Kansas State University); M.M. (New England Conservatory of Music); Ph.D. (University of Kansas).

#*Olga Ackerly, associate professor of music (musicology); B.M., M.M. (Manhattan School of Music); M.A., M.Ph., Ph.D. (University of Kansas).

#*Robert Watson, William and Mary Grant/MISSOURI Endowed Professor in Jazz Studies; B.M. (University of Miami).

Paula B. Weber, associate professor of dance (ballet); B.A. (Butler University); M.F.A. (Smith College).

#*Robert Weinreich, Jack Strandberg/Missouri Endowed Chair in Piano, chair of keyboard studies, and associate dean for performance studies; B.M. (Oberlin Conservatory of Music); D.M.A. (Yale University).

@Richard Lee Williams, chair of vocal studies and assistant professor of music (coach-accompanist, foreign language for singing); B.A., B.M. (University of Akron); M.M. (University of Illinois).

Rodni Williams, assistant professor of dance (modern); B.F.A. (Adelphi University).

@Zhou Long, visiting professor (composition); (Central Conservatory in Beijing); D.M.A. (Columbia University).

SCHOOL OF NURSING

* Members of UMKC Graduate Faculty

# Members of UMKC Doctoral Faculty

Obie Austin, clinical instructor of nursing; B.S.N. (Missouri Western State University); M.S.N. (University of Missouri-Kansas City).

Susan E. Bennett, clinical instruction of nursing; B.S.N. (University of Missouri-Columbia); M.S.N. (Texas A&M).

Teresa W. Blanc, clinical instructor of nursing; B.S.N. (Missouri Western State University); M.S.N. (University of Kansas).

Joyce E. Clement, clinical instructor of nursing; B.S.N. (University of Massachusetts); M.S.N. (University of Missouri-Kansas City).

Syble J. Cretzmeyer, visiting clinical instructor of nursing; B.S.N. (Central Missouri State University); M.S.N. (University of Missouri-Columbia).

#*Mathe Enriquez, Ph.D. program director and assistant professor of nursing; B.S.N. (Webster University); M.S.N., Ph.D. (University of Missouri-Kansas City).

Martha Goodwin, clinical instructor of nursing; B.S.N. (University of Kansas); M.S.N. (University of Colorado).

Judy Willis Hileman, clinical assistant professor of nursing; B.S.N., M.N., Ph.D. (University of Kansas).

#*Tina Hines, Dorothy and Dale Thompson/Missouri Endowed Professor in Nursing; B.A. (George Washington University); B.S.N. (Spalding University); Ph.D. (University of Louisville).

Kim Hunter, clinical instructor of nursing; B.S.N., M.S.N. (University of Kansas); M.S.N. (University of Missouri-Kansas City).
Jennifer Hunter associate professor of nursing; B.S.N. (University of Tulsa); M.S.N., Ph.D. (University of Kansas).

Patricia Kelly professor of nursing; B.A. (SUNY-Albany); M.S.N. (Pace University); M.P.H. (Columbia University); Ph.D. (University of Illinois).

Susan J. Kimble M.S.N. program director and clinical instructor of nursing; B.S.W. (University of Nebraska); B.S.N., M.S.N. (University of Missouri-Kansas City).

JoAnn G. Klaassen clinical instructor of nursing; B.S.N., M.N. (Wichita State University); J.D. (University of Missouri-Kansas City).

Carolyn King-White clinical instructor of nursing; B.S.N. (Webster University); M.S.N. (University of Missouri-Kansas City).

Steve Krantz associate professor of nursing/education; B.A., M.S. (University of Utah); Ph.D. (Utah State University).

Karen L. Kroen clinical instructor of nursing; B.S. (Truman State University); B.S.N. (University of Kansas); M.H.S.A. (Central Michigan University).

Simon H. Friedman; associate 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).

Jane Anthony Peterson located at UM-St. Louis campus.

Loretta J. North associate professor of nursing; B.S.N., M.S.N. (University of Missouri-Kansas City).

Sandie Noubour clinical instructor of nursing; B.S.N. (University of Texas-Austin); M.N. (University of Kansas).

Loretta J. North clinical instructor of nursing; B.S.N. (Dillard University); M.S.N. (University of South Alabama).

Jane Anthony Peterson assistant professor of nursing; B.S. (Kearney State College); M.S.N. (Texas Woman’s University); Ph.D. (University of Nebraska Medical Center).

Mary A. O’Connor assistant professor of nursing; B.S.N. (St. Louis University); M.S. (Webster University); Ph.D. (University of Missouri-Kansas City).

Jennifer Hunter clinical instructor of nursing; B.S.N., M.S.N. (University of Kansas); M.S. (University of Missouri-Kansas City).

Kristin C. Lee clinical instructor of nursing; B.S.N. (Purdue University); M.S.N. (University of Missouri-Kansas City).

Lyn E. Vargo; clinical instructor of nursing; B.S.N. (Central Missouri State University); M.S.N. (University of Missouri-Kansas City).

Nicole M. Allcock clinical instructor of nursing; B.S.N. (Mississippi Valley State University); M.N. (University of Nebraska).

Wayne M. Brown associate professor, school of pharmacy, and clinical associate professor of pharmacy practice; B.S. (Medical College of South Carolina); M.S., Ph.D. (University of Missouri-Kansas City).

Patrick J. Bryant; clinical associate professor of pharmacy practice and director, UMKC Drug Information Center; Pharm.D. (University of Nebraska Medical Center).

Frank Caligiuri; clinical assistant professor of pharmacy practice; Pharm.D. (Drake University College of Pharmacy & Health Sciences).

Lester Chafetz; professor emeritus of pharmaceutical science; B.S. (University of Rhode Island); M.S., Ph.D. (University of Wisconsin).

Kun Cheng; assistant professor of pharmaceutical science; B.S., M.S. (China Pharmaceutical University, China); M.S. (National University of Singapore, Singapore); Ph.D. (University of Tennessee).

Glenn H. Eberhart; professor emeritus of pharmacology and toxicology; B.S. (University of Denver); M.S., Ph.D. (University of California).

Mary L. Euler associate dean, school of pharmacy, and clinical associate professor of pharmacy practice; B.S. (University of Kansas); Pharm.D. (University of Missouri-Kansas City).

Jack E. Fincham; professor of pharmacy practice; B.S. (University of Nebraska); Ph.D. (University of Minnesota).

Simon H. Friedman; associate professor of pharmaceutical science; B.S. (Massachusetts Institute of Technology); Ph.D. (University of California, San Francisco).

Maquial Friedman; associate 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).

Heremy P. Hampton; clinical assistant professor of pharmacy practice; B.S. (Rockhurst University); Pharm.D. (University of Missouri-Kansas City).
#*Orisa J. Igwe, associate professor of pharmacology and toxicology; B.S. (Northeast Louisiana University); M.S. (University of Kentucky); Ph.D. (University of Cincinnati).

Marcus B. Issard, director of assessment, school of pharmacy and affiliate associate professor of pharmacology and toxicology; B.S., M.S., Ph.D. (Florida A&M University).

#*Thomas P. Johnston, associate professor of pharmaceutical sciences; B.S., Ph.D. (University of Minnesota).

Maureen E. Knell, associate professor of pharmacy practice; Pharm.D. (University of Missouri-Kansas City).

Peggy G. Kuehl, clinical associate professor of pharmacy practice; B.S. (South Dakota State University); Pharm.D. (University of Minnesota).

#*Anil Kumar, professor of pharmacology and toxicology and chair, Division of Pharmacology and Toxicology; B.S., M.S. (Lucknow University, India); Ph.D. (Kanpur University, India).

Robert C. Lanman; professor emeritus of pharmacology and toxicology, School of Pharmacy; B.S., Ph.D. (University of Minnesota).

#*Chi H. Lee, associate professor of pharmaceutical science; B.S. (Seoul National University, South Korea); M.S. (University of Washington); Ph.D. (Rutgers University).

Cameron C. Lindsey, associate professor of pharmacy practice; Pharm.D. (University of Missouri-Kansas City).

Yifei Liu; clinical assistant professor of pharmacy practice; B.S. (West China University of Medical Sciences, China); M.S.; Ph.D. (University of Iowa).

#*Karen S. Mark, associate professor of pharmacology and toxicology; 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 associate 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).

Tatum Mead; clinical assistant professor of pharmacy practice; Pharm.D. (University of Iowa); B.A. (University of Northern Iowa).

#*Ashim K. Mitra, vice provost for interdisciplinary research, co-director of Vision Research Center, curators professor of pharmaceutical science and chair, Division of Pharmaceutical Science; B.S., M.S. (Jadavpur University, India); M.S.; Ph.D. (University of Kansas).

Mrudul Mukherji; assistant professor of pharmaceutical science; B.S. (University of Allahabad, India); M.S. (University of Calicut, India); Ph.D. (University of Oxford, United Kingdom).

Leigh Anne Nelson, clinical assistant professor of pharmacy practice; B.S., Pharm.D (University of Missouri-Kansas City).

Noel O. Nuessele; professor emeritus of pharmaceutical science; B.S. (St. Louis College of Pharmacy and Allied Sciences); M.S., Ph.D. (University of Florida).

Crystal D. Obering, clinical assistant professor of pharmacy practice; Pharm.D., M.B.A. (Drake University).

Heather A. Pace, clinical assistant professor of pharmacy practice; Pharm.D. (University of Missouri-Kansas City).

Brooke Y. Patterson, clinical assistant professor of pharmacy practice; Pharm.D. (Purdue University).

D. Keith Perkins; clinical associate professor of pharmacy practice; B.S. (University of Missouri-Kansas City); Pharm.D. (University of Utah).

#*Robert W. Piepho, dean, school of pharmacy, and professor of pharmacology and toxicology; B.S. (University of Illinois); Ph.D. (Loyola University).

Rafia S. Rasu, assistant professor of pharmacy practice; B.S., M.S., M.B.A (Dhaka University, Dhaka, Bangladesh); Ph.D. (University of Texas).

William J. Rost; professor emeritus of pharmaceutical science; B.S., Ph.D. (University of Minnesota).

Valerie L. Ruetter, clinical assistant professor of pharmacy practice and director, experiential programs; B.S., Pharm.D. (University of Missouri-Kansas City).

Nicole Russell; clinical assistant professor of pharmacy practice; Pharm.D. (Midwestern University College of Pharmacy-Glendale).

Jennifer A. Santee, clinical associate professor of pharmacy practice; Pharm.D. (University of Iowa).

Stephanie Schauer; clinical assistant professor of pharmacy practice; Pharm.D. (University of Missouri-Kansas City).

Lindsey Schnabel; clinical assistant professor of pharmacy practice; Pharm.D. (University of Missouri-Kansas City).

Andrew Smith; clinical assistant professor of pharmacy practice; Pharm.D. (University of Missouri-Kansas City).

Kathleen A. Snella, associate dean, school of pharmacy, and clinical associate professor of pharmacy practice; B.S. (University of Iowa); Pharm.D. (The University of Texas at Austin and The University of Texas Health Science Center at San Antonio).

Roger W. Sommi, Jr., professor of pharmacy practice; B.S. (University of Wisconsin-Madison); Pharm.D. (University of Utah).

Morgan Sperry; clinical assistant professor of pharmacy practice; Pharm.D. (Creighton University).

Steven Stoner, clinical associate professor of pharmacy practice and interim chair, Division of Pharmacy Practice; Pharm.D. (University of Nebraska).

Deepti Vyas, clinical assistant professor of pharmacy practice; Pharm.D. (Purdue University).

#*Jianping Wang, assistant professor of pharmacology and toxicology; M.D., M.S. (Second Military Medical University); Ph.D. (Louisiana State University of Health Sciences Center).

Elizabeth Winans; clinical associate professor of pharmacy practice; B.S. (Kansas State University); B.S., Pharm.D. (University of Oklahoma College of Pharmacy).

#*Bi-Botti C. Youan, associate professor of pharmaceutical science; Pharm.D. (University of Cote, Abidjan); MBA (United Business Institutes, Belgium); M.Sc., Ph.D. (Catholic University of Louvain, Belgium).

David M. Youn; professor emeritus of pharmacology and toxicology, School of Pharmacy and School of Medicine; B.S. (University of Missouri-Columbia); Ph.D. (University of Missouri-Kansas City).

# Associate or Adjunct Graduate Faculty

* Members of UMKC Graduate Faculty

# Members of UMKC Doctoral Faculty

+ Located at UM-St. Louis campus

Criminal Justice and Criminology

#*Cathleen Burnett, associate professor of sociology/CJC; B.A. (St. Lawrence University); M.S., Ph.D. (Vanderbilt University).

Jessica Hodge; assistant professor of criminal justice and criminology; B.A. (University of Minnesota); M.S. (Western Oregon University); Ph.D. (University of Delaware).
ADDRESSES AND PHONE NUMBERS

The main telephone number of the University is (816) 235-1000. Operators are on duty 8 a.m. to 5 p.m. Monday through Friday to direct calls. Application and admission questions should be directed to (816) 235-1111.

The main University Web site is http://www.umkc.edu

Addresses and phone numbers for the Schools of Dentistry, Medicine, Nursing and Pharmacy on the Hospital Hill campus are shown below. All other addresses are for locator purposes only.

Academic Units

College of Arts and Sciences,
Robert Hall, 711 E. 51st Street, 816-235-1136, college@umkc.edu, cas.umkc.edu

School of Biological Sciences,
Biological Sciences Building, 5007 Rockhill Road, 816-235-1388, sbs-grad@umkc.edu, sbs.umkc.edu

Henry W. Bloch School of Business and Public Administration,
Bloch School, 5110 Cherry Street, 816-235-2215, bloch@umkc.edu, www.bloch.umkc.edu

School of Computing and Engineering,
Robert H. Flarsheim Science and Technology Hall, Room 534, 5110 Rockhill Road, 816-235-2399, sce@umkc.edu, www.sce.umkc.edu

School of Dentistry,
Dental School, 650 E. 23rd Street, Kansas City, MO 64108-2784, 816-235-2100, dentistry@umkc.edu, dentistry.umkc.edu

School of Education,
Education Building, 615 E. 52nd Street, 816-235-2234, education@umkc.edu, www.umkc.edu/education

School of Graduate Studies,
Administrative Center, Room 300F, 5115 Oak Street, 816-235-1161, graduate@umkc.edu, www.umkc.edu/ogs

School of Law,
School of Law, 500 E. 52nd Street, 816-235-1644, law@umkc.edu, www.law.umkc.edu

School of Medicine,
School of Medicine, 2411 Holmes Street, Kansas City, MO 64108-2792, 816-235-1808, medicine@umkc.edu, www.med.umkc.edu

Conservatory of Music and Dance,
Performing Arts Center, 4949 Cherry Street, 816-235-2900, conservatory@umkc.edu, conservatory.umkc.edu

School of Nursing,
School of Nursing, Health Sciences Building, 2464 Charlotte Street, Kansas City, MO 64108, 816-235-1700, nurses@umkc.edu, nursing.umkc.edu

School of Pharmacy,
School of Pharmacy, Health Sciences Building, 2464 Charlotte Street, Kansas City, MO 64108, 816-235-1609, pharmacy@umkc.edu, pharmacy.umkc.edu

Departments of the College of Arts and Sciences

American Studies,
Haig Hall, Room 204G, 5120 Rockhill Road, 816-235-1137, am-st@umkc.edu, cas.umkc.edu/amst

Architecture, Urban Planning and Design,
Epperson House, 5200 Cherry Street, 816-235-1725, arch@umkc.edu, cas.umkc.edu/aupd

Art and Art History,
Pine Arts Building, Room 204, 5015 Holmes Street, 816-235-1501, art@umkc.edu, cas.umkc.edu/art

Center on Aging Studies,
5215 Rockhill Road, 816-235-1747, Fax: 816-235-5193, breytspraak@umkc.edu, cas.umkc.edu/acs

Chemistry,
Spencer Chemistry Building, 5009 Rockhill Road, 816-235-2272, Fax: 816-235-5502, umkc-chemdept@umkc.edu, cas.umkc.edu/chem

Classical and Ancient Studies,
816-235-1305, cas.umkc.edu/classics

Communication Studies,
Haig Hall, Room 202, 5120 Rockhill Road, 816-235-1337, Fax: 816-235-5539, com-s@umkc.edu, cas.umkc.edu/comm

Economics,
Haig Hall, Room 211, 5120 Rockhill Road, 816-235-1314, Fax: 816-235-2834, economics@umkc.edu, cas.umkc.edu/econ

English Language and Literature,
Center for the Humanities, Room 106, 5121 Rockhill Road, 816-235-1305 or (816) 235-1307, Fax: 816-235-1308, english@umkc.edu, cas.umkc.edu/english

Foreign Languages and Literatures,
Scotfield Hall, Room 216, 711 E. 51st Street, 816-235-1311, Fax: 816-235-1312, flitg@umkc.edu, cas.umkc.edu/foreign

Geosciences,
Robert H. Flarsheim Science and Technology Hall, Room 420, 5110 Rockhill Road, 816-235-1334, Fax: 816-235-5335, geosciences@umkc.edu, cas.umkc.edu/geo

History,
Cockcroft Hall, Room 203, 5121 Rockhill Road, 816-235-1631, Fax: 816-235-5723, history@umkc.edu, cas.umkc.edu/history

Honor Program,
Haig Hall, Room 204, 5120 Rockhill Road, 816-235-2820, Fax: 816-235-5542, umkchonors@umkc.edu, cas.umkc.edu/honors

Hospitality Studies,
5300 Rockhill Road, 816-235-5954, hst-st@umkc.edu, cas.umkc.edu/hospitality

Mathematics and Statistics,
Haig Hall, Room 206, 5120 Rockhill Road, 816-235-1641, math@umkc.edu, cas.umkc.edu/math

Military Science,
5322 Rockhill Road, 816-235-1152, armymrc@umkc.edu

PACE/Program for Adult College Education,
Scotfield Hall, Room 104, 711 E. 51st Street, 816-235-1588, Fax: 816-235-5760, pace-pom@umkc.edu, cas.umkc.edu/pace

Philosophy,
Cockcroft Hall, Room 222, 5121 Rockhill Road, 816-235-1331, Fax: 816-235-2819, philosophy@umkc.edu, cas.umkc.edu/philosophy

Physics,
Robert H. Flarsheim Science and Technology Hall, Room 257, 5110 Rockhill Road, 816-235-1604, Fax: 816-235-5221, hinkkf@umkc.edu, cas.umkc.edu/physics
Political Science, 
Haag Hall, Room 213, 5120 Rockhill Road, 816-235-1326, Fax: 816-235-5594, pol-sc@umkc.edu, cas.umkc.edu/polisci
Pre-Law Program, 
Spofford Hall, Room 23, 711 E. 51st Street, 816-235-6094, cas.umkc.edu/prelaw
Psychology, 
4825 Troost Avenue, suite 124, 816-235-1318, Fax: 816-235-1062, psychology@umkc.edu, cas.umkc.edu/psych
Religious Studies, 
Haag Hall, Room 204E, 5120 Rockhill Road, 816-235-5704 or (816) 235-5854, Fax: 816-235-5542, cel-st@umkc.edu, cas.umkc.edu/religious_studies
School of Social Work, 
4825 Troost Avenue, suite 106, 816-235-1025, Fax: 816-235-6573, soc-wk.umkc.edu, cas.umkc.edu/socialwork
Sociology/Criminal Justice and Criminology, 
Haag Hall, Room 208, 5120 Rockhill Road, 816-235-1116, Fax: 816-235-1117, sociology@umkc.edu, cas.umkc.edu/soc
Theatre, 
5319 Holmes Street, 816-235-2702, Fax: 816-235-6552, theatre@umkc.edu, cas.umkc.edu/theatre
Urban Studies, 
Robert H. Flarsheim Science and Technology Hall, Room 420, 5110 Rockhill Road, 816-235-2971, Fax: 816-235-5535, dirivers@umkc.edu
Women’s and Gender Studies, 
Haag Hall, Room 204B, 5120 Rockhill Road, 816-235-2734, Fax: 816-235-5542, wgs@umkc.edu, cas.umkc.edu/wgs

Departments and Offices
Academic Advising/Information, 
Contact a specific department or school.
Admissions, Office of, 
Administrative Center, Room 120, 5115 Oak Street, 816-235-1111, admit@umkc.edu, www.umkc.edu/admissions
Assistantships, Applications for, 
Contact a specific department or school.
Athletics, Dept. of Intercollegiate, 
Bennion Recreation Center, Room 201, 5030 Holmes Street, 816-235-1036, athletics@umkc.edu, www.umkc.edu/athletics
Berkeley Child and Family Development Center, 
Berkeley Child and Family Enrichment Center, 1012 E. 52nd Street, 816-235-2600.
Bookstore, Hospital Hill Campus, 
Health Sciences Building, 2418 Charlotte Street, 816-235-2191, umkchealthbooks@umkc.edu, http://www.umkchealthbooks.com
Bookstore, Volker Campus, 
University Center, Mid-level, 5000 Rockhill Road, 816-235-2665, bookstore@umkc.edu, http://www.umkcbookstore.com
Call Center, 
(816) 235-2000, umkcsccalcenter@umkc.edu, http://www.umkc.edu/s/support/callcenter/ Technicians are on duty 7 am. - 7 pm. Monday - Thursday, 7 am. - 5 pm. Friday to provide computer support for the campus.
Counseling Services, 
4825 Troost Avenue, suite 206, 816-235-1635, ctc@umkc.edu, www.umkc.edu/ctc
Disabled Student Services, 
University Center, Room LL 23, 5000 Holmes Street, 816-235-5696, disability@umkc.edu, www.umkc.edu/disability
Diversity and Equity, 
Administrative Center, Rooms 218A and 223, 5115 Oak Street, 816-235-1333, ioe@umkc.edu, www.umkc.edu/adminfinance/ieoe
Fees (Cashier’s Office), 
Administrative Center, Room 112, 5115 Oak Street, 816-235-1365, cashiers@umkc.edu, www.umkc.edu/adminfinance/finance/cashiers
Financial Aid and Scholarships Office, 
Administrative Center, Room 101, 5115 Oak Street, 816-235-1154, finalaid@umkc.edu, www.sfa.umkc.edu
Housing, Residential Life Office, 
Cherry Street Residence Hall, 5030 Cherry Street, 816-235-8956, housing@umkc.edu, www.umkc.edu/housing
Housing, Oak Street Residence Hall Administrative Office, 
5001 Oak Street, 816-235-8680
Human Resources, 
Administrative Center, Room 226, 5115 Oak Street, 816-235-1621, hr@umkc.edu, www.umkc.edu/adminfinance/hr
Information Center, Campus, 
University Center, lobby, 5000 Holmes Street, 816-235-5555.
International Academic Programs, Center for, 
5325 Rockhill Road, 816-235-5799, international@umkc.edu, www.umkc.edu/international
International Student Affairs, Office of, 
International Student Affairs Office, 5235 Rockhill Road, 816-235-1113, isa@umkc.edu, www.umkc.edu/isa
Kansas City Repertory Theatre, 
Performing Arts Center, Central Ticket Office, 4949 Cherry Street, 816-235-2700, http://www.kcrep.com
Minority Student Affairs, 
5245 Rockhill Road, 816-235-1109, msa@umkc.edu, www.umkc.edu/msa
Parking Operations, Automobile Registration, 
Administrative Center, Room 221, 5115 Oak Street, 816-235-5256, parking@umkc.edu, www.umkc.edu/adminfinance/parking
Police, UMKC, 
4825 Troost Avenue, Room 213, 816-235-1515, www.umkc.edu/adminfinance/police
Registration, UMKC Registration Center, 
Administrative Center, Room 115, 5115 Oak Street, 816-235-1125, registrar@umkc.edu, www.umkc.edu/registrar
Student Health and Wellness Center, 
4825 Troost Avenue, Room 115, 816-235-6133, studenthealth@umkc.edu, www.umkc.edu/cht/health
Student Life Office, 
University Center, Room G6, 50th and Rockhill Road, 816-235-1407, stulife@umkc.edu, www.umkc.edu/stulife
Student Pharmacy, 
4825 Troost Avenue, Room 115, 816-235-6103, studenthealth@umkc.edu, www.umkc.edu/studenthealth
Swinnney Recreation Center, 
Recrity Center, 5300 Holmes Street, 816-235-1772, prc@umkc.edu, www.umkc.edu/prc
Testing Services, 
4825 Troost Avenue, Room 206, 816-235-1635, ctc@umkc.edu, www.umkc.edu/ctc/testing
Transfer Credit Policies, Admissions/Enrollment Services, 
Administrative Center, Room 120, 5115 Oak Street, 816-235-1111, adm@umkc.edu, www.umkc.edu/admissions
Transcripts and Records, UMKC Records Office, 
Administrative Center, Room 115, 5115 Oak Street, 816-235-1111, registrar@umkc.edu, www.umkc.edu/registrar
University News (UMKC Student Newspaper), 
5327 Holmes Street, 816-235-1393, www.unews.com
Veterans Services, Veteran Affairs, 
Administrative Center, Room 115, 5115 Oak Street, 816-235-1112.
Welcome Center, 
Administrative Center, Room 120, 5115 Oak Street, 816-235-8652; (816) 235-UMKC, welcome@umkc.edu, www.umkc.edu/welcome
Women’s Center, 
Haag Hall, Room 105, 5120 Rockhill Road, 816-235-1638, womenscenter@umkc.edu, www.umkc.edu/womens
Writing Center, 
The Writing Center, 5201 Rockhill Road, 816-235-1146, umkcowritingcenter@umkc.edu, cas.umkc.edu/writingcenter

BOOKSTORES
UMKC Bookstore
University Center, Mid-level 
5000 Rockhill Road
(816) 235-BOOK (2665)
Fax: (816) 235-1443
bookstore@umkc.edu
Owned and operated by the University of Missouri, the UMKC bookstores provide a wide array of educational materials and a variety of services. Student success hinges on having the necessary resources at the right time and the right price. At the main bookstore in University Center, students can find a wide array of educational materials and a variety of services to assist in their academic success. Required and recommended textbooks are immediately available, as well as numerous supplemental materials including general reference and study guides. The UMKC bookstore also carries bestsellers, fiction, non-fiction and academic titles as well as an assortment of school and office supplies. Need something special to show your college spirit? Come browse through our large selection of UMKC clothing and gifts. Other services for your convenience include:

- Textbook Reservation program
- Textbook Buyback
- Graduation Fairs
- The Booker's Dozen reading rewards program
- Special Order programs

### Technology is Affordable and Easy

At RooTech, located inside the main bookstore, UMKC students are automatically eligible for special savings on technology hardware, software and supplies. Look no further for a technology package that is user friendly and residence hall ready. A valid UMKC ID is necessary to obtain these terrific savings with educational pricing.

### Textbook Buyback

There aren't too many items that can be purchased, used for a few months and then returned to the store for cash. During the last two weeks of the fall and spring semesters, an independent wholesale book company conducts book buyback to help the campus bookstore fill the textbook department with used books required for the upcoming semester. At this time, students can sell back their books for cash. If an instructor has requested a particular book for the next semester, the bookstore will pay up to 50 percent of the new price until the order is filled. Even if you originally bought the book for used price, you'll still get 50 percent of the new price if the book is needed. If a textbook is not required for the upcoming semester or if an instructor has not yet turned in their order, the wholesale book company may buy back your books to fill orders at other colleges and universities. They may offer you 0-30 percent of the new book price. Sometimes, books cannot be bought back due to a newer edition being used or if the book is in unsaleable condition.

### Convenient Payment Options

Customers may use cash, personal checks, credit cards (MC, Visa or Discover), UMKC Bookstore Gift Cards and student charge. A valid photo ID is required for check transactions and a valid UMKC ID is required for student charge.

### Student Charge

Student charge is available for financially enrolled students. Student charge allows students to purchase bookstore items with their UMKC ID and charge it to their UMKC account. Financial enrollment means that a student has made the minimum educational fee payment for the academic semester. A student may not student charge if they are not officially enrolled for the current semester (e.g., if you're not enrolled for summer school, you can't student charge during the summer semester). A student may charge a maximum of $1,000 per semester. Once the limit is reached, another form of payment is needed. Making a payment to your University of Missouri bill will not adjust the balance back to $1,000.

Whether visiting in person or online, you will find there's more at your UMKC Bookstore, where profits support student services, facilities and programs.

### UNIVERSITY OF MISSOURI SYSTEM INFORMATION

**Campus locations:** Kansas City, Columbia, Rolla, St. Louis

Total enrollment (fall 2006): 63,783; 75 percent undergraduates, 25 percent graduate and first professional students

Web site: [http://www.umsystem.edu](http://www.umsystem.edu)

Total degrees granted: 12,323 in fiscal year 2006

Total faculty (fall 2006): 7,478; 67 percent full time, 33 percent part time

Total staff (fall 2006): 16,457; 74 percent full time, 26 percent part time

Student financial aid: $587,705,678 in grants, loans, work programs, scholarships, fellowships and other aid awarded to 51,341 students in fiscal year 2006

Land holdings: 19,517 acres

### Campus Information

Inquiries regarding admission to the other three campuses of the University of Missouri should be directed to the following addresses. Phone numbers are also listed.

#### University of Missouri-Columbia

**Director of Admissions**

230 Jesse Hall
Columbia, MO 65211
800-225-6075
mu4u@missouri.edu

[http://prospectuestudents.missouri.edu](http://prospectuestudents.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
HONOR COUNCIL PROCEDURES FOR VIOLATIONS OF THE STANDARDS OF PROFESSIONAL GROWTH AND ETHICAL BEHAVIOR

UNIVERSITY OF MISSOURI-KANSAS CITY SCHOOL OF PHARMACY

I. JURISDICTION OF THE HONOR COUNCIL

The Honor Council shall be concerned with specified incidents of alleged violations by University of Missouri-Kansas City School of Pharmacy students of the School’s Standards of Professional and Ethical Behavior, Sections IIA and IIB. Violations of the University of Missouri Student Conduct Code as described in Section III will be referred to the Office of the Vice Chancellor for Student Affairs. The standards identify areas of conduct which are judged unacceptable for individuals who are either in or aspire to be in the profession of pharmacy. The Standards of Professional and Ethical Behavior are distributed to all newly enrolled students during orientation. When a pharmacy student has been charged with one or more acts of misconduct according to these standards, the Honor Council shall have the authority to recommend sanctions upon any accused appearing before the Council. The disciplinary proceedings described are not to be construed as judicial trials. Care shall be taken, however, to comply as fully as possible with the spirit and intent of these procedural safeguards.

II. ORGANIZATION OF THE HONOR COUNCIL

A. COMPOSITION

The Honor Council members shall consist of the Chair; three voting faculty members, one from each division (3 votes); and one student member from each year 2-6 of the professional degree programs (3 students). The three most senior students no in accused’s class will vote. Voting will take place by secret ballot. The chair and faculty members will not be administrators or division chairs. Four members or their alternates (2 faculty (to exclude the chair), 2 students) constitute a quorum. One nonvoting Honor Council staff member will assist the Chair in generation of reports and will be present at the hearings to take minutes. In case of a tie among the Honor Council as a whole, the chair shall vote in order to make the final determination upon recommendations from the other members. Proxy votes will not be allowed.

B. ELIGIBILITY AND APPOINTMENT

The chair of the Honor Council shall be elected by the full faculty. An alternate will also be elected. The three division representatives and an alternate for each shall be elected by their respective divisions. The student representatives and their alternates shall be elected by their class officers. All elections shall be held on an annual basis at the beginning of the academic year, no later than September 15. After elections, a preliminary meeting of all members to discuss the role and function of the Honor Council will be held within two weeks.

C. TIME OF APPOINTMENT AND TERM OF OFFICE

All members shall serve a one year appointment or until replaced by election but may be re-elected in subsequent years. A student is ineligible to continue as a member of the Honor Council if placed on academic or disciplinary probation, or if for any other reason membership of the Council may not be in the best interest of the School of Pharmacy as determined by the Honor Council chair. In this case, the alternate would assume membership on the Council, and another alternate would be chosen by the class officers.

D. PRIMARY ADMINISTRATIVE LIAISON (PAL)
A primary administrative liaison (PAL) will be appointed by the Dean for a minimum of a two year term. The PAL will draft the charge and represent the School of Pharmacy in all cases. The PAL will include all references to the School of Pharmacy within this document.

III. PROCEDURES FOR REPORT OF VIOLATION, INVESTIGATION, INFORMAL DISPOSITION, AND NOTICE

A. REPORT OF VIOLATION

An alleged violation of the Standards of Professional and Ethical Behavior should be reported to the PAL of the Honor Council or designee as soon as possible after discovery of the incident. The Chair shall notify the Dean of all accusations.

B. PRELIMINARY PROCEDURES AND MEETING

The PAL shall investigate any reported student misconduct before initiating formal conduct procedures. The PAL is responsible for notifying the accused, in writing by certified mail, of the allegations brought against him/her prior to the commencement of the preliminary meeting and shall receive a copy of these Procedures for Violations of the Standards of Professional and Ethical Behavior along with the written notice. The PAL shall meet with the accused student to give the student the opportunity to present a personal version of the incident or occurrence.

C. INFORMAL DISPOSITION

The PAL shall have the authority to dismiss an allegation or propose appropriate sanctions to the accused student and shall fix a reasonable time within which the student shall accept or reject a proposed informal disposition. A failure of the student either to accept or reject within the time fixed shall be deemed to be an acceptance and, in such event, the proposed disposition shall become final upon expiration of such time. If the student rejects informal disposition, it must be in writing and shall be forwarded to the Honor Council.

D. PRIOR TO FORMAL HEARING

The PAL shall draft the charge and call the Honor Council into session for a preliminary meeting within 10 working days of receipt of a written accusation of misconduct. The Chair of the Honor Council shall approve meeting dates. In the case that an elected member and an alternate have a conflict of interest in the case, the electing body would choose another member for the one case at the time of the preliminary meeting. [See section 11B for election procedures.] If the case is found to be within the jurisdiction of the Honor Council, a formal hearing will be held. If it is not within the jurisdiction of the Honor Council, the case will be forwarded to the Office of the Vice Chancellor for Student Affairs or other appropriate action will be taken. The PAL and the accused may meet with the Chair separately to discuss these policies and procedures. The Dean, designee, or other appropriate university official(s), may at any time temporarily suspend or deny readmission to the accused from the School of Pharmacy pending formal procedures when the Dean or the Chancellor or the Chancellor's designee finds and believes from available information that the presence of the accused on campus would seriously disrupt the School of Pharmacy or constitute a danger to the health, safety, or welfare of members of the School of Pharmacy community. The appropriate procedure to determine the future status of the accused will be initiated within seven calendar days of any action taken.

E. NOTICE OF FORMAL HEARING

If the accusation is found at the preliminary meeting to be within the jurisdiction of the Honor Council, the formal hearing will be held within 15 working days of mailing of the official notice. Notice by certified mail will be sent to the address currently on record with the UMKC Registrar's Office. Failure by the accused to have a current local address on record with the Registrar's Office shall not be construed to invalidate such notice. The PAL, witnesses, and the accused will be given written notice of the hearing by certified mail. The notice shall set forth the date, time, and place of the alleged violation, the conduct for inquiry, the date, time and place of the hearing before the Council, request for attendance of the parties involved, and a reference for the accused to the Rights of the Accused Student Upon Hearing which are outlined in these Procedures. The notice shall be given at least seven (7) consecutive calendar days prior to the hearing, unless a shorter time be fixed by the Chair for good cause. Any request for continuance shall be made in writing to the Chair who shall have the authority to postpone the hearing if it is determined that the request is timely and made for good cause. The Chair shall notify the Honor Council members, the accused, the PAL, the witnesses, and any other relevant individuals of the new date for the hearing. If the accused fails to appear at the scheduled time, the Honor Council may hear and determine the matter in the accused's absence.

IV. PROCEDURE FOR HONOR COUNCIL HEARING

A. RIGHTS OF THE HONOR COUNCIL

The Honor Council shall have the right to:

- hear together cases involving more than one accused which arise out of the same act of misconduct, but in that event shall make separate findings and determinations for each accused;
- permit a stipulation of facts by the accused involved and the PAL;
- permit the incorporation in the record by a reference of any document, affidavit, or other material produced and desired in the record by the PAL or the accused charged and make a determination of whether the information is relevant to the case at hand;
- question witnesses, the accused, and/or the PAL or challenge other evidence introduced by either the PAL or the accused at any time;
- hear from the Council Chair about dispositions made in similar cases;
- call additional witnesses or require additional investigation;
- dismiss any action at any time;
- permit or require at any time, within a reasonable time as determined by the Council, amendment of the Notice of Hearing to include new or additional matters which may come to the attention of the Council before final determination of the case; provided, however, that in such event the Council shall grant to the accused or the School such time as the Council may determine reasonable under the circumstances to answer or explain such additional matters; and,
- dismiss any person from the hearing who interferes with or obstructs the hearing or fails to abide by the rulings of the Council Chair on any procedural question or request of the Chair for order.

B. RIGHTS OF THE ACCUSED UPON HEARING

The accused scheduled to appear before the Honor Council pursuant to formal notice of charges and disciplinary hearing shall have the right to:

- submit a written response to the charge outlined in the Notice before the scheduled hearing is to commence;
- request in advance of the scheduled hearing a review of any materials contained in the accused's hearing file which will be kept in the Student Affairs Office;
- submit a written request for the identities of witnesses to be called to testify before the Council;
- be present at the hearing;
- have an advisor or counselor appear with the accused and to consult with such an adviser or counselor before and/or during the hearing: however, the adviser/counselor will not be allowed to question witnesses and/or address members of the Council;
- hear or examine evidence presented to the Honor Council;
- question the PAL and/or witnesses present who are testifying at the hearing;
- present evidence by witness, affidavit, written report, other memoranda, photographs, drawings, and any other relevant evidence of any defense the accused desires;
- make any statement to the Honor Council in mitigation or explanation of the conduct in question;
- remain silent to avoid self-incrimination;
- be informed in writing of the findings and any decisions imposed by the Honor Council, the Executive Committee; and, • appeal the decision and/or disposition to the Chancellor, as herein provided.

C. RIGHTS OF SCHOOL OF PHARMACY

The Primary Administrative Liaison (PAL) has the right to:

- be present at the hearing;
- present evidence by witness, affidavit, written report, other memoranda, photographs, drawings, and any other relevant evidence the PAL desires;
- offer rebuttal at the appropriate time as determined by the Chair;
• question witnesses or the accused;
• have an adviser or counselor appear with the PAL and to consult with such an adviser or counselor before or during the hearing; however, the adviser/counselor will not be allowed to question
witnesses and/or address members of the Council;
• hear or examine evidence presented to the Honor Council by witnesses or the accused; and,
• be informed in writing of the findings and any decisions imposed by the Honor Council or the Executive Committee.

D. RIGHTS OF WITNESSES
Witnesses shall be notified of the scheduled time, date, and location of the hearing. Witnesses shall bring with them whatever documentation is requested. Failure of a student witness to appear,
without good cause, is a violation of the Standards of Professional and Ethical Behavior.

E. RECORD OF HEARING
All proceedings of the Honor Council are to be held in the strictest confidence by the members and all other persons involved. The hearings shall be audio taped, and written minutes will also be
recorded. The notice, exhibits, hearing record, verdict, and disposition of the Honor Council shall become the record of the Case. This official document shall be filed under strictest security in the
permanent records of the Students Affairs Office of the School of Pharmacy. The record shall be accessible at the reasonable times and places to both the University and the accused for the purpose
of review or appeal.

F. CONDUCT OF THE HEARING
The Honor Council Chair shall preside at the hearing, call the hearing to order, call the roll of the Honor Council members in attendance, ascertain the presence or absence of the accused, read the
Notice of Hearing and Charge and verify the receipt of Notice of Charge by the accused, report any continuances requested or granted, establish the presence of any adviser or councilor of the
accused, call the attention of the accused and the adviser any special or extraordinary procedures to be employed during the hearing, and permit suggestions for or objections to any procedures
for the Honor Council to consider. NOTE: Advisors will not be allowed to questions the PAL, witnesses, and/or address members of the Council All requests to address the Council shall be addressed
to the Chair. The Chair will rule on all requests and points of order and may consult with Council's legal adviser prior to any ruling. The Chair's ruling shall be final, and all participants shall abide
thereby, unless the Chair shall present the question to the Council at the request of a member of the Council, in which event, the ruling of the Council by majority vote shall be final. Rules of
common courtesy and decency shall be observed at all times.

1. OPENING STATEMENTS
• The Honor Council Chair or designee shall make opening remarks outlining the general nature of the case.
• The accused may make an opening statement to the Council about the charge at this time.
• The PAL may make an opening statement and may add additional clarification to other opening statements as necessary.
• Witnesses of the School of Pharmacy are to be called by the PAL and identified or written reports of evidence are introduced as appropriate.
• The Council may question witnesses at any time.
• The accused may question witnesses or examine evidence at the conclusion of the PAL’s presentation.

2. SCHOOL OF PHARMACY’S EVIDENCE
• The PAL may question own witnesses.
• The accused may have the opportunity to make a statement to the Honor Council about the charge.
• The accused may present evidence through witnesses or written memoranda.
• The Council may question the accused or witnesses at any time.
• The PAL may question witnesses or examine evidence at the conclusion of the accused’s presentation.
• the accused may question own witnesses.
• Accused’s Evidence:

4. REBUTTAL EVIDENCE:
The Honor Council may permit the PAL or the accused to offer a rebuttal to the other’s presentation. If it appears that essential testimony is unavailable, or that for other good cause the hearing
should be deferred, the Council may continue, recess or discontinue the hearing without prejudice.

V. DETERMINATION OF THE HONOR COUNCIL
Following the hearing, the Council shall promptly deliberate in closed session out of the presence of the accused, the witnesses, or the PAL. Determination is to be made regarding both the validity
of the charge and the discipline, if any, to be imposed.

A. VIOLATION OF THE STANDARDS OF PROFESSIONAL AND ETHICAL BEHAVIOR
The Honor Council shall determine if the evidence presented in the hearing supports the charge of violation of the Standards of Professional and Ethical Behavior. The Council shall render a decision,
by simple majority vote, of whether a violation has been committed by the accused. Each charge, if there are more than one, shall be considered individually and/or collectively at the discretion of
the Council.

B. DISCIPLINE IMPOSED
The Honor Council shall determine the discipline to be imposed, if any, based upon its deliberations. The following forms of discipline are to be recommended by means of a simple majority vote of
the Council members. Where there are multiple violations, there can be separate sanctions for each violation. The sanctions include, but are not limited to, the following:

NO DISCIPLINARY ACTION –
Given when the student is not found in violation of the Standards of Professional and Ethical Behavior.

WARNING
– A written reprimand that the student has violated the Standards of Professional and Ethical Behavior.

PROBATION –
A written reprimand for violation of the Standards of Academic Conduct that includes a designated period of time, the probability of more severe sanctions if the student violates any institutional
regulation(s) during the probationary period, and subject to any appropriate terms or conditions, such as loss of privileges, restitution, and discretionary assignments.

SUSPENSION –
An involuntary separation from the School of Pharmacy for a specified period of time or until special conditions have been met, with a statement whether suspension should relate back to the date
of the offense, begin at the time imposed, or begin at a date specified in the future. At the conclusion of the period of suspension, the suspended student is automatically returned to student status.
Conciliation for readmission may be specified.

DISMISSAL –
An involuntary separation from the School of Pharmacy for an indefinite period of time. The order of dismissal may specify a date before which the faculty will not consider a petition for readmission
from the dismissed student.
Permanently separated from the School of Pharmacy. A copy of the imposed sanction is to be placed in the student's non-academic file.

VI. DECISION OF THE EXECUTIVE COMMITTEE

The findings and determination of the Honor Council serve as recommendations to the Executive Committee. The Executive Committee, as described in the School of Pharmacy By-Laws, chaired by the Dean or designee, reviews the charge, the finding of fact, the decision of the Council, and the recommended discipline to be imposed from the Honor Council. They also assured that the procedures outlined for the Honor Council were successfully followed. The Executive Committee has the right to request further information from either party. Either party can also request to address the Executive Committee. In either case, both parties will be notified of the request, the nature of the request, and be asked to attend if deemed necessary by the Executive Committee. Both parties will have the same rights as they have upon hearing as outlined in IV B & C of this document. The Executive Committee hearings shall be audio taped, and written minutes will also be recorded. The notice, exhibits, hearing record, verdict, and disposition of the Executive Committee shall become the record of the Case. This official document shall be filed in the permanent records of the Student Affairs Office of the School of Pharmacy. The record shall be accessible at the reasonable times and places to both the University and the accused for the purpose of review or appeal. After deliberation and careful consideration, the Executive Committee approves, by simple majority vote, one of the following actions:

- to sustain the recommendations of the Honor Council;
- to amend the recommendations of the Honor Council to another type of sanction;
- to remand the Honor Council's recommendations; or,
- to reverse the Honor Council's recommendations.

The Dean shall notify the accused of the findings of the Honor Council and the Executive Committee in writing, by certified mail, within seven calendar days of the Executive Committee meeting. Copies of the letter will be sent to the Honor Council Chair, the PAL, and the Office of Student Affairs for placement in the accused's file and in the official hearing file.

VII. RIGHT OF APPEAL

When a recommendation from the Honor Council and the Executive Committee is made for some form of disciplinary action other than 'no disciplinary action', the accused may appeal such decision to the Chancellor or designated representative by filing written notice of appeal with the Chancellor within ten (10) consecutive calendar days after notification of the decision of the Executive Committee. A copy of the Notice of Appeal will also be given to the accused to the Dean of School of Pharmacy at the time of filing who will transmit copies to the Executive Committee and the Honor Council. The accused may file a written memorandum for consideration by the Chancellor with the Notice of Appeal. The Chancellor or designated representative shall review the record of the case and the appeal documents and may affirm, reverse, or remand the case for further proceedings and shall notify the Dean and the accused in writing of the decision on the appeal. The action of the Chancellor shall be final unless it be to remand the matter for further proceedings.

STATUS DURING APPEAL

In cases of suspension, dismissal or expulsion where a Notice of Appeal is filed within the required time, the accused may petition the Chancellor in writing for permission to attend classes pending final determination of appeal. The Chancellor may permit the accused to continue in school under such conditions as may be designated pending completion of appellate procedures, provided such continuance will not disrupt the University or constitute a danger to the health, safety or welfare of the University Community. In such event, however, any final disciplinary action imposed shall be effective from the date of the action of the Executive Committee.

VIII. STATUS OF THE STANDARDS OF PROFESSIONAL AND ETHICAL BEHAVIOR

Amendments to the Standards of Professional and Ethical Behavior and/or Honor Council Procedures for Violations may be proposed by petition of any twenty-five members of the student body, or the Honor Council on its own motion, or the faculty.

A proposed amendment in the Standards of Professional and Ethical Behavior and/or Honor Council Procedures for Violations must be approved by a 2/3 majority vote of the Honor Council members present (all members have the right to vote on amendments = 9 votes), by a 2/3 majority vote of the faculty present, by the Chancellor, and the Board of Curators.

The Standards of Professional and Ethical Behavior and/or Honor Council Procedures for Violations may be terminated at any time by action under the general amending procedure.

STANDARDS OF PROFESSIONAL AND ETHICAL BEHAVIOR

UNIVERSITY OF MISSOURI-KANSAS CITY SCHOOL OF PHARMACY

I. PREAMBLE

One of the goals of a pharmacy school is to educate a pharmacy student during the transition to a professional life. The University of Missouri-Kansas City School of Pharmacy has an obligation to evaluate students pursuing the B.S. and Pharm.D. practice degrees as thoroughly as possible for their cognitive abilities, their academic and professional knowledge and skills, their integrity, and their suitability for the practice of pharmacy. Accordingly, the Standards of Professional and Ethical Behavior detailed in this document have been developed to guide the pre-professional behavior of professional degree-seeking pharmacy students of the University of Missouri-Kansas City School of Pharmacy and to prepare the pharmacy students to meet the ethical standards of the pharmacy profession.

Students enrolled in the graduate programs in pharmaceutical sciences and pharmacology will be governed by the University of Missouri Student Conduct Code.

II. PROFESSIONAL INTEGRITY

A. PROFESSIONAL INTEGRITY

1. HONESTY

A pharmacy student shall deal honestly with people including, but not limited to, colleagues, instructors, representatives of the University, patients, attending physicians, and other members of the health care team. Pharmacy students are expected to demonstrate honesty and integrity in all aspects of their interaction with patients and staff – particularly in assuring accuracy and completeness in their actions and documentation. The pharmacy student shall be willing to admit errors and must not mislead others or promote himself/herself at the patient's expense. The pharmacy student shall strive to report, by utilizing the Honor Council Procedures for Violations of the Standards of Professional and Ethical Behavior, those pharmacy students deficient in character or competence, or who engage in fraud or deception.

The basic principle underlying all research is honesty. Scientists and pharmacy students who participate in research have a responsibility to provide research results of the highest quality; to gather facts meticulously, to keep impeccable records of work done; to interpret results realistically, not forcing them into preconceived molds or models: and to report new knowledge through appropriate channels. Co-authors of research reports must be sufficiently acquainted with the work of their co-workers that they can personally vouch for the integrity of the study and validity of the findings, and must have been active in the research itself.

Examples of academic dishonesty include, but are not limited to, the following:

CHEATING

- use of any unauthorized assistance in taking quizzes, tests, or examinations;
- dependence upon the aid of unauthorized sources in writing papers, preparing reports, solving problems, or carrying out other assignments;
- acquisition or possession without permission of tests or other academic material belonging to a member of the University faculty or staff;
- in any way giving assistance to others who are participating in any of the three preceding types of behavior; or
- falsifying attendance records or other official documents.

PLAGIARISM

- use by paraphrase or direct quotation of the published or unpublished work of another person without fully and properly crediting the author with footnotes, citations or bibliographical reference;
unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials; or

unacknowledged use of original work/material that has been produced through collaboration with others without release in writing from collaborators.

SABOTAGE

unauthorized interference with, modification of, or destruction of the work or intellectual property of another member of the University community.

Examples of dishonesty related to clinical practice include, but are not limited to, the following:

FALSIFICATION OF PATIENT’S MEDICAL RECORD OR INFORMATION

• Writing progress notes or other documentation regarding the patient’s status, including, but not limited to, clinical observations or results in the patient’s chart when the pharmacy student has not seen or evaluated the patient, or using incorrect times of data entry.

• Reporting medical information such as physical examination finds, lab values, test results, an any other relevant patient information to other students, residents, attending physicians, the patient, the patient’s family, or other relevant health care personnel that has been fabricated by the pharmacy student.

2. RESPONSIBILITY

A pharmacy student must acquire competencies with the appropriate concepts, knowledge, and skills which the faculty determine to be essential. These competencies shall be utilized to care for the sick and to promote the health and welfare of society. A pharmacy student shall recognize a responsibility to participate in activities contributing to an improved community.

Pharmacy students in the care of patients must not be harmful, dangerous, or negligent to the mental or physical health of a patient or the public. Negligent means the failure to use that degree of skill and learning ordinarily used under the same or similar circumstances by other pharmacy students.

Students must be familiar with and follow the rules and regulations of the School of Pharmacy, the University, and related professional organizations.

B. PHARMACY PROFESSIONAL BEHAVIOR

1. NONDISCRIMINATION

It is against University regulations to discriminate on the basis of race, color, creed, sex, age, national origin, disability, or Vietnam Era Veterans status. The University has an AIDS policy statement consistent with state law that prohibits discrimination against persons with AIDS or who are HIV positive.

2. REPRESENTATION

A pharmacy student shall accurately represent himself/herself to others including, but not limited to, colleagues, instructors, representatives of the University, patients, pharmacists and other members of the health care team.

Examples of misrepresentation include, but are not limited to the following:

• A pharmacy student shall never use the title of "pharmacist", as this clearly misrepresents the student’s position, knowledge, and authority.

• Use of fraud, deception, lies, or bribery in securing any certificate of registration or authority, diploma, permit or license issued, or in obtaining permission to take any examinations.

• Impersonation of any person holding a certificate of registration or authority, permit, license or allowing any person to use his/her certificate of registration or authority, permit, license, or diploma from any school.

• Forgery, alteration, or misuse of a patient’s medical records or knowingly furnishing false information to the other members of the health care profession and/or professional organizations.

3. CONFIDENTIALITY

A pharmacy student shall respect the rights of patients, colleagues, and other health professionals, and shall safeguard patient confidences within the constraints of the law. The patient’s right to confidentiality in regard to his/her medical record, which includes confidentiality of personal and social history, is a fundamental tenet to medical care. Proprietary information from clerkship and/or externships shall not be shared.

The discussion in public of the problems of an identified patient, without the patient’s permission, by professional staff (including other students) violates patient confidentiality and is unethical. Under no circumstances can any medical record be removed from the institution. Photocopying of the entire record is never permitted for presentations or rounds; students are permitted to extract information, but not copy ‘wholesale’ parts of the chart. Names of patients should be omitted from any documents used for these presentations.

4. DISCLOSURE

While the pharmacy student is a member of the patient care team and under faculty supervision, a pharmacy student shall continue to study, apply and advance scientific knowledge, make relevant information available to patients, colleagues, and the public, obtain consultation, and use the talents of other health professionals when indicated.

Sharing of medical information appropriately with a patient and colleagues involved in the care of the patient is a fundamental ethical requirement. The patient must be well informed to make health care decisions and work intelligently in partnership with the patient care team. Information that the patient needs for decision making shall be presented in terms the patient can understand. If, for some reason, the patient is unable to comprehend, there shall be disclosure to the patient’s authorized representative.

Failure of a pharmacy student to share medical information relevant to a patient with the patient and colleagues involved in the care of the patient is unethical. Providing inaccurate information with these individuals is also unacceptable.

5. ASSESSMENT OF PERSONAL COMPETENCE (SELF-EVALUATION)

Pharmacy students shall seek consultation and supervision whenever their ability to play their role in the care for a patient is inadequate because of lack of knowledge or experience.

Students are expected to respond to constructive criticism by appropriate modification of behavior.

It is unacceptable for a pharmacy student to dispense prescription medications or to prescribe therapies without supervision.

6. PROFESSIONAL DEMEANOR

The pharmacy student is expected to be thoughtful and professional when interacting with faculty, patients and their families, attending physicians, pharmacy preceptors, other students, and other members of the health care team and whenever his/her behavior may influence adversely the judgments of others about the professional school of University.

Students shall maintain a neat and clean appearance, and dress in attire that is generally accepted as professional by the patient populations served.

Inappropriate behavior includes, but is not limited to, the use of offensive language, gestures, or remarks. Attempting, directly or indirectly, by way of intimidation, coercion or deception, to obtain or retain a patient or discourage the use of a second opinion or consultation is not appropriate.

7. CONFLICT OF INTEREST

If a conflict of interest arises, the moral principle is clear – the welfare of the patient must be, at all times, paramount. For example, gifts, hospitality, or subsides offered by manufacturers and distributors of medical and pharmaceutical equipment/goods shall not be accepted if acceptance would influence the objectivity of clinical judgment.

8. MISCONDUCT WITH PATIENTS

The pharmacy student will not engage in romantic, sexual, or other nonprofessional behaviors with a patient – even upon the apparent request of a patient – while the pharmacy student is involved with the patient’s care.

9. IMPAIRMENT

The pharmacy student will not use alcohol or drugs in ways that impair his/her ability to perform the work of the profession or results in compromised patient care. It is the responsibility of every pharmacy student to strive to protect the public from an impaired colleague and to assist that colleague whose capability is impaired because of alcohol or drug use.
SCHOOL OF MEDICINE HONOR CODES

Examples of dishonesty related to clinical practice include, but are not limited to, the following:

SABOTAGE
• use by paraphrase or direct quotation of the published or unpublished work of another person without fully and properly crediting the author with footnotes, citations or bibliographical reference;
• unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials; or
• unacknowledged use of original work/material that has been produced through collaboration with others without release in writing from collaborators.

PLAGIARISM
• use by paraphrase or direct quotation of the published or unpublished work of another person without fully and properly crediting the author with footnotes, citations or bibliographical reference;
• unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials; or
• unacknowledged use of original work/material that has been produced through collaboration with others without release in writing from collaborators.

CHEATING
1) use of any unauthorized assistance in taking quizzes, tests, or examinations; 2) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; or 3) acquisition or possession without permission of tests or other academic material belonging to a member of the University faculty or staff; 4) in any way giving assistance to others who are participating in any of the three preceding types of behavior; or, 5) falsifying attendance records or other official documents.

The basic principle underlying all research is honesty. Scientists and medical students who participate in research have a responsibility to provide research results of the highest quality; to gather facts meticulously; to keep impeccable records of work done; to interpret results realistically, not forcing them into preconceived molds or models; and to report new knowledge through appropriate channels. Co-authors of research reports must be sufficiently acquainted with the work of their co-workers that they can personally vouch for the integrity of the study and validity of the findings, and must have been active in the research itself.

Examples of academic dishonesty include, but are not limited to, the following:

CREATING
1) use of any unauthorized assistance in taking quizzes, tests, or examinations; 2) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; or 3) acquisition or possession without permission of tests or other academic material belonging to a member of the University faculty or staff; 4) in any way giving assistance to others who are participating in any of the three preceding types of behavior; or, 5) falsifying attendance records or other official documents.

PLAGIARISM
1) use by paraphrase or direct quotation of the published or unpublished work of another person without fully and properly crediting the author with footnotes, citations or bibliographical reference; 2) unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials; or 3) unacknowledged use of original work/material that has been produced through collaboration with others without release in writing from collaborators.

SABOTAGE
Unauthorized interference with, modification of, or destruction of the work or intellectual property of another member of the University community.

Examples of dishonesty related to clinical practice include, but are not limited to, the following:
FALSIFICATION OF PATIENT’S MEDICAL RECORD

Writing progress notes regarding the patient’s status, including, but not limited to, clinical observations or results in the patient’s chart when the medical student has not seen or evaluated the patient, or using incorrect times of data entry.

FALSIFICATION OF PATIENT’S MEDICAL INFORMATION

Reporting medical information such as physical examination findings, lab values, test results, and any other relevant patient information to other students, residents, attending physicians, the patient, the patient’s family, or other relevant medical personnel that has been fabricated by the medical student.

2. RESPONSIBILITY

A medical student must acquire competences with the appropriate concepts, knowledge, and skills which the faculty determine to be essential. These competences shall be utilized to care for the sick and to promote the health and welfare of society. A medical student shall recognize a responsibility to participate in activities contributing to an improved community.

Medical students in the care of patients must not be harmful, dangerous, or negligent to the mental or physical health of a patient or the public. Negligent means the failure to use that degree of skill and learning ordinarily used under the same or similar circumstances by other medical students.

Medical students must pay tuition and other University fees, such as the Quarterly Profile Exam fee, on time. Medical students must complete required forms of evaluation, degree forms, examination applications, etc. on time.

Students must be familiar with and follow the rules and regulations of the School of Medicine, the University, and related professional organizations.

B. MEDICAL PROFESSIONAL BEHAVIOR

1. NONDISCRIMINATION

A medical student shall be dedicated to providing supervised competent medical service with compassion, respect for human dignity, and without discrimination. It is against University regulations to discriminate on the basis of race, color, creed, sex, age, national origin, disability, or Vietnam Era Veterans status. The University has an AIDS policy statement consistent with state law that prohibits discrimination against persons with AIDS or who are HIV positive.

2. REPRESENTATION

A medical student shall accurately represent himself/herself to others including, but not limited to, colleagues, instructors, representatives of the University, patients, attending physicians, and other members of the health care team. Examples of misrepresentation include, but are not limited to, the following:

1. A medical student shall never use the title of “Doctor” or M.D., as this clearly misrepresents the student’s position, knowledge, and authority.
2. Use of fraud, deception, lies, or bribery in securing any certificate of registration or authority, diploma, permit or license issued, or in obtaining permission to take any examinations.
3. Impersonation of any person holding a certificate of registration or authority, permit, license or allowing any person to use his/her certificate of registration or authority, permit, license or diploma from any school.
4. Forging, alteration, or misuse of a patient’s medical records or knowingly furnishing false information to the medical team and/or professional organizations.

3. CONFIDENTIALITY

A medical student shall respect the rights of patients, colleagues, and other health professionals, and shall safeguard patient confidences within the constraints of the law. The patient’s right to confidentiality in regard to his/her medical record, which includes confidentiality of personal and social history, is a fundamental tenet to medical care.

The discussion in public of the problems of an identified patient, without the patient’s permission, by professional staff (including medical students) violates patient confidentiality and is unethical. Under no circumstances can any medical record be removed from the institution. Photocopying of the entire record is never permitted for presentations or rounds; students are permitted to extract information, but not copy “wholesale” parts of the chart. Names of patients should be omitted from any documents used for these presentations.

4. DISCLOSURE

While the medical student is a member of the medical team and under faculty supervision, a medical student shall continue to study, apply and advance scientific knowledge, make relevant information available to patients, colleagues, and the public, obtain consultation, and use the talents of other health professionals when indicated.

Sharing of medical information appropriately with a patient and colleagues involved in the care of the patient is a fundamental ethical requirement. The patient must be well informed to make health care decisions and work intelligently in partnership with the medical team. Information that the patient needs for decision making shall be presented in terms the patient can understand. If, for some reason, the patient is unable to comprehend, there shall be disclosure to the patient’s authorized representative.

Failure of a medical student to share medical information relevant to a patient with the patient and colleagues involved in the care of the patient is unethical. Providing inaccurate information with these individuals is also unacceptable.

5. ASSESSMENT OF PERSONAL COMPETENCE (SELF-EVALUATION)

Medical students shall seek consultation and supervision whenever their ability to play their role in the care for a patient is inadequate because of lack of knowledge or experience.

Students are expected to respond to constructive criticism by appropriate modification of behavior.

It is unacceptable for a medical student to attempt procedures or to prescribe therapies without supervision.

6. PROFESSIONAL Demeanor

The medical student is expected to be thoughtful and professional when interacting with patients and their families, attending physicians, supervising residents, and other medical students, and whenever his/her behavior may influence adversely the judgments of others about the professional school or University.

Students shall maintain a neat and clean appearance, and dress in attire that is generally accepted as professional by the patient populations served.

Inappropriate behavior includes, but is not limited to, the use of offensive language, gestures, or remarks. Attempting, directly or indirectly, by way of intimidation, coercion or deception, to obtain or retain a patient or discourage the use of a second opinion consultation is not appropriate.

7. INFORMED CONSENT

Students are to understand the physician’s obligation to obtain informed consent from patients, but are not responsible for obtaining it for a physician. Simply, it is the physician’s responsibility to ensure that the patient or his/her surrogate be appropriately informed as to the nature of the patient’s medical condition, the objectives of proposed treatments, treatment alternatives, and risks involved. The patient’s or surrogate’s concurrence must be obtained without coercion.

8. CONFLICT OF INTERESTS

If a conflict of interest arises, the moral principle is clear -- the welfare of the patient must be, at all times, paramount. For example, gifts, hospitality, or subsidies offered by manufacturers and distributors of medical and pharmaceutical equipment/goods shall not be accepted if acceptance would influence the objectivity of clinical judgement.

9. MISCONDUCT WITH PATIENTS

The medical student will not engage in romantic, sexual, or other non-professional behaviors with a patient -- even upon the apparent request of a patient -- while the medical student is involved with the patient’s care.

10. IMPAIRMENT

The medical student will not use alcohol or drugs in ways that impair his/her ability to perform the work of the profession or results in compromised patient care. It is the responsibility of every medical student to strive to protect the public from an impaired colleague and to assist that colleague whose capability is impaired because of alcohol or drug use.
In some instances a medical student’s alcohol or drug problem may also be referred to the AIMS Council. However, consideration by the AIMS Council does not remove the medical student’s obligation to comply with these Standards of Professional Conduct or the University’s Student Conduct Code.

11. CRITICISM OF COLLEAGUES

Professional relations among all members of the medical community shall be marked by civility. Scholarly contributions shall be acknowledged and each person shall recognize and facilitate the contributions of others to this community; slanderous comments and acts are not acceptable. Medical students shall deal with professional, staff, and peer members of the health team in a considerate manner and with a spirit of cooperation.

It is unethical and harmful for a medical student to disparage, without sufficient evidence, the professional competence, knowledge, qualifications, or services of a colleague to anyone. It is also unethical to imply without reliable evidence — by word, gesture, or deed — that a patient has been poorly managed or mistreated by a colleague.

12. TEACHING

The word “doctor” (for the Latin “docere” — to teach) implies a responsibility to share knowledge and information with colleagues and patients. It is incumbent upon those entering this profession to teach what they know of the science, art, and ethics of medicine. It includes communicating clearly and teaching patients so that they are properly prepared to participate in their own care and in the maintenance of their health.

3. UNIVERSITY OF MISSOURI STUDENT CONDUCT CODE

In addition to the conduct detailed in the preceding sections, a medical student is subject to the University of Missouri Student Conduct Code, as administered by the Office of the Vice Chancellor for Student Affairs, except for provisions dealing with academic dishonesty, Section 200.010 B.1.

Conduct for which students are subject to sanctions falls into the following categories:

A. Forgery, alteration, or misuse of University documents, records or identification, or knowingly furnishing false information to the University.

B. Obstruction or disruption of teaching, research, administration, conduct proceedings, or other University activities, including its public service functions on or off campus.

C. Physical abuse or conduct which threatens or endangers the health or safety of any person.

D. Attempted or actual theft of, damage to, or possession without permission of property of the University or of a member of the University community or of a campus visitor.

E. Unauthorized possession, duplication, or use of keys to any University facilities or unauthorized entry to or use of University facilities.

F. Violation of University policies, rules or regulations or of campus regulations including, but not limited to, those governing residence in University-provided housing, or the use of University facilities, or the time, place and manner of public expression.

G. Manufacture, use, possession, sale, or distribution of alcoholic beverages or any controlled substance without proper prescription or required license or as expressly permitted by law or University regulations.

H. Disruptive or disorderly conduct or lewd, indecent, or obscene conduct or expression.

I. Failure to comply with directions of University officials acting in the performance of their duties.

J. Illegal or unauthorized possession of firearms, explosives, other weapons, or dangerous chemicals.

K. Actual or attempted theft or other abuse of computer time, including but not limited to: a) unauthorized entry into a file to use, read, or change the contents, or for any other purpose; b) unauthorized transfer of a file; c) unauthorized use of another individual’s identification and password; d) use of computing facilities to interfere with the work of another student, faculty member, or University official; e) use of computing facilities to interfere with normal operation of the University computing system; and f) knowingly causing a computer virus to become installed in a computer system or file.

Details of the policies, procedures, sanctions, and due process for violations of the University of Missouri Student Conduct Code are found in the University of Missouri-Kansas City General Catalog.

HONOR COUNCIL PROCEDURES FOR VIOLATIONS OF THE STANDARDS OF PROFESSIONAL CONDUCT

University of Missouri-Kansas City School of Medicine
Approved by the University of Missouri Board of Curators: December 1994

HONOR COUNCIL PROCEDURES FOR VIOLATIONS OF THE STANDARDS OF PROFESSIONAL CONDUCT

UNIVERSITY OF MISSOURI-KANSAS CITY SCHOOL OF MEDICINE

I. JURISDICTION OF THE HONOR COUNCIL

The Honor Council shall be concerned with incidents of alleged violations by University of Missouri-Kansas City School of Medicine students of the School’s Standards of Professional Conduct, Sections II.A and II.B. Violations of Section III will be referred to the Office of the Vice Chancellor for Student Affairs. The standards identify areas of conduct which are judged unacceptable for individuals either who are in or aspire to the profession of medicine. The Standards of Professional Conduct are published in the Council on Evaluation Policy Manual and Guidelines document of the School of Medicine. It is distributed to all newly accepted students during orientation. When a medical student has been charged with one or more acts of misconduct according to these standards, the Honor Council shall adhere to the following procedures detailed herein. The Honor Council shall have the authority to recommend sanctions upon any student appearing before the Council. The disciplinary proceedings described are not to be construed as judicial trials. Care shall be taken, however, to comply as fully as possible with the spirit and intent of these procedural safeguards.

II. ORGANIZATION OF THE HONOR COUNCIL

1. COMPOSITION

The Honor Council voting members shall consist of the Chair representing the Dean’s Office, five faculty/staff members (1 Docent, 1 Basic Scientist, 2 Clinical Scientists, and 1 Humanities/Social Sciences representative), and one student member (1 Years III-VI). Four members constitute a quorum. Two nonvoting Honor Council staff, the Council Coordinator and the Administrative Assistant, assist the Chair in investigations and generation of reports and are present at the hearings to take minutes.

2. ELIGIBILITY AND APPOINTMENT

Faculty/staff, and student members shall be appointed to the Honor Council by the Dean of the School of Medicine.

3. CHAIR

The Chair shall count as one member of the Honor Council and shall be entitled to vote on all matters before the Council.

4. TIME OF APPOINTMENT AND TERM OF OFFICE

The Chair and faculty/staff members of the Honor Council shall serve for the duration of their appointments by the Dean. The student member of the Honor Council shall serve for one year.

A student is ineligible to continue as a member of the Honor Council if he/she is placed on academic or disciplinary probation, or if for any other reason his/her continued membership on the Council may not be in the best interest of the School of Medicine as determined by the Dean.

III. PROCEDURES FOR REPORT OF VIOLATION, INVESTIGATION, INFORMAL DISPOSITION, AND NOTICE

A. REPORT OF VIOLATION

An alleged violation of the Standards of Professional Conduct should be reported to the Chair or his/her designee of the Honor Council as soon as possible after discovery of the incident.

B. PRELIMINARY PROCEDURES AND INVESTIGATION

The Chair of the Honor Council or his/her designee shall investigate any reported student misconduct before initiating formal conduct procedures. The reporter will be requested to meet with the Chair or his/her designee to discuss the alleged violation.
The Chair is responsible for notifying, in writing, the accused student of the charge brought against him/her prior to the commencement of the investigation. In addition, the student charged with misconduct shall receive a copy of these Procedures for Violations of the Standards of Professional Conduct along with the written notice. The Chair shall meet with the accused student to give the student the opportunity to present a personal version of the incident or occurrence.

C. INFORMAL DISPOSITION

After conducting an investigation, the Chair or his/her designee shall provide a written report to the Dean, the accused student, and the Honor Council members. The Chair shall have the authority to dismiss a charge that is determined unfounded or to impose appropriate sanctions and shall fix a reasonable time within which the student shall accept or reject a proposed informal disposition. A failure of the student either to accept or reject within the time fixed shall be deemed to be an acceptance and, in such event, the proposed disposition shall become final upon expiration of such time.

If the student rejects informal disposition, it must be in writing and shall be forwarded to the Honor Council. The Chair may refer cases to the Honor Council for formal investigation and hearing without first offering informal disposition.

The Dean or his/her designee may at any time temporarily suspend or deny readmission to a student from the School of Medicine pending formal procedures when the Dean or his/her designee finds and believes from available information that the presence of a student on campus would seriously disrupt the School of Medicine or constitute a danger to the health, safety, or welfare of members of the School of Medicine community. The appropriate procedure to determine the future status of the student will be initiated within seven calendar days.

D. NOTICE OF HEARING

Upon completion of the investigation, when a student rejects informal disposition or the charge justifies a formal hearing, in the judgment of the Honor Council Chair, the Chair will schedule a formal hearing as soon as possible. The notice of hearing shall be given to the student and to the student’s adviser or counselor who shall immediately provide the accused student with notice of the hearing. The notice shall state the charge, the proposed disposition, the date, time, and place of the hearing; whether an adviser or counselor is permitted to attend the hearing; and whether the student may present evidence or witnesses in support of the case. The notice shall also state the right of the student to have an adviser or counselor present at the hearing.

Notice by certified mail may be addressed to the last address currently on record with the School of Medicine. Failure by the accused student to have a current correct local address on record with the School of Medicine shall not be construed to invalidate such notice.

The notice shall be given at least seven (7) consecutive calendar days prior to the hearing, unless a shorter time be fixed by the Chair for good cause.

Any request for continuance shall be made in writing to the Chair who shall have the authority at his/her discretion to postpone the hearing if he/she determines the request is timely and made for good cause. The Chair shall notify the Honor Council members, the accused student, the reporter, the witnesses, and any other relevant individuals of the new date for the hearing.

If the accused student fails to appear at the scheduled time, the Honor Council may hear and determine the matter in the student’s absence.

XV. PROCEDURE FOR HONOR COUNCIL HEARING

RIGHTS OF THE HONOR COUNCIL

The Honor Council Chair shall have the right to:

- hear together cases involving more than one student which arise out of the same act of misconduct, but in that event shall make separate findings and determinations for each student;
- permit a stipulation of facts by the Honor Council member who performed the investigation and the student involved;
- permit the incorporation in the record by a reference of any document, affidavit, or other material produced and desired in the record by the School of Medicine or the student charged;
- question witnesses or challenge other evidence introduced by either the School of Medicine or the student at any time;
- hear from the Council Chair about dispositions made in similar cases;
- and any dispositions offered to the student appearing before the Council;
- call additional witnesses or require additional investigation;
- dismiss any action at any time or permit informal disposition as otherwise provided;
- permit or require at any time, within a reasonable time as determined by the Council, amendment of the Notice of Hearing to include new or additional matters which may come to the attention of the Council before final determination of the case; provided, however, that in such event the Council shall grant to the student or the School such time as the Council may determine reasonable under the circumstances to answer or explain such additional matters; and,
- dismiss any person from the hearing who interferes with or obstructs the hearing or fails to abide by the rulings of the Council Chair or any procedural question or request of the Chair for order.

A. RIGHTS OF THE ACCUSED STUDENT UPON HEARING

A student scheduled to appear before the Honor Council pursuant to formal notice of charges and disciplinary hearing shall have the right to:

- submit a written response to the charge outlined in the Notice before the scheduled hearing is to commence;
- request in advance of the scheduled hearing a review of any materials contained in his/her hearing file which will be kept in the Council on Evaluation Office;
- submit a written request for the identities of witnesses to be called to testify before the Council;
- be present at the hearing;
- have an adviser or counselor appear with him/her and to consult with such an adviser or counselor during the hearing; however, the adviser/counselor will not be allowed to question witnesses and/or members of the Council;
- hear or examine evidence presented to the Honor Council against him/her;
- question witnesses present who are testifying against him/her at the hearing;
- present evidence by witness, affidavit, written report, other memoranda, photographs, drawings, and any other relevant evidence of any defense the student desires;
- make any statement to the Honor Council in mitigation or explanation of the conduct in question;
- remain silent to avoid self-incrimination;
- be informed in writing of the findings and any decisions imposed by the Honor Council, Coordinating Committee, and the Dean; and,
- appeal the decision and/or disposition to the Chancellor, as herein provided.

B. RIGHTS OF WITNESSES

Witnesses shall be notified of the scheduled time, date, and location of the hearing. Witnesses shall bring with them whatever documentation is requested. Failure of a student witness to appear, without good cause, is a violation of the Standards of Professional Conduct.

C. RECORD OF HEARING

All proceedings of the Honor Council are to be held in the strictest confidence by the members and all other persons involved. The hearings shall be audio taped, and written minutes are also recorded. The notice, exhibits, hearing record, verdict, and disposition of the Honor Council shall become the “Record of the Case.” This official document shall be filed under strictest security in the permanent records of the Evaluation Council Office. The record shall be accessible at reasonable times and places to both the University and the student for the purpose of review or appeal.

D. CONDUCT OF THE HEARING

The Honor Council Chair shall preside at the hearing, call the hearing to order, call the roll of the Honor Council members in attendance, ascertain the presence or absence of the student charged with misconduct, read the Notice of Hearing and charge and verify the receipt of notice of charge by the student, report any continuances requested or granted, establish the presence of any adviser or counselor of the student, call to the attention of the student charged and the adviser any special or extraordinary procedures to be employed during the hearing, and permit the student to make suggestions of or objections to any procedures for the Honor Council to consider.

All requests to address the Council shall be addressed to the Chair. The Chair will rule on all requests and points of order and may consult with Council’s legal adviser prior to any ruling. The Chair’s ruling shall be final, and all participants shall abide thereby, unless the Chair shall present the question to the Council at the request of a member of the Council, in which event the ruling of the Council by majority vote shall be final.

Rules of common courtesy and decency shall be observed at all times. An adviser or counselor may be permitted to address the Council at the discretion of the Chair. An adviser or counselor may request clarification of a procedural matter or object on the basis of procedure at any time by addressing the Chair after recognition.
1) The Honor Council Chair or his/her designee shall make opening remarks outlining the general nature of the case and testify to any facts the investigation has revealed. 2) The accused student may make an opening statement to the Council about the charge at this time or at the conclusion of the School of Medicine's presentation.

School of Medicine Evidence:
1) School of Medicine witnesses are to be called by the Chair of the Honor Council and identified or written reports of evidence are introduced as appropriate. 2) The Council may question witnesses at any time. 3) The student may question witnesses or examine evidence at the conclusion of the School of Medicine's presentation.

Student Evidence:
1) The student shall have the opportunity to make a statement to the Honor Council about the charge. 2) The student may present evidence through witnesses or written memoranda. 3) The Council may question the student or witnesses at any time.

Rebuttal Evidence:
The Honor Council may permit the School of Medicine or the student to offer a rebuttal of the other's presentation.

If it appears that essential testimony is unavailable, or that for other good cause the hearing should be deferred, the Council may continue, recess or discontinue the hearing without prejudice.

V. DETERMINATION OF THE HONOR COUNCIL
Following the hearing, the Council shall promptly deliberate in closed session out of the presence of the student charged. Determination is to be based except of the validity of the misconduct charge and on the discipline, if any, to be imposed.

A. Violation of the Standards of Professional Conduct
The Honor Council shall determine if the evidence presented in the hearing supports the charge of violation of the Standards of Professional Conduct. The Council shall render a decision, by simple majority vote, of whether a violation has been committed by the accused. Each charge of misconduct, if there are more than one, shall be considered individually and/or collectively at the discretion of the Council.

B. Discipline Imposed
The Honor Council shall determine the discipline to be imposed, if any, based upon its deliberations. One of the following forms of discipline is to be recommended by means of simple majority vote of the Council members. Where there are multiple violations, there can be separate sanctions for each violation. The sanctions include, but are not limited to, the following:

No Disciplinary Action.
Given when the student is not found in violation of the Standards of Professional Conduct.

Warning.
A written reprimand to the student that the student has violated the Standards of Professional Conduct. A copy is to be placed in the student's file.

Probation.
A written reprimand to the student for violation of the Standards of Academic Conduct that includes a designated period of time, the probability of more severe sanctions if the student violates any institutional regulation(s) during the probationary period, and subject to any appropriate terms or conditions, such as loss of privileges, restitution, and discretionary assignments.

Suspension.
An involuntary separation of the student from the School of Medicine for a specified period of time or until a special conditions have been met, with a statement whether suspension should relate back to the date of the offense, begin at the time imposed, or begin at a date specified in the future. At the conclusion of the period of suspension, the suspended student is automatically returned to student status. Conditions for readmission may be specified.

Dismissal.
An involuntary separation from the the School of Medicine for an indefinite period of time. The order of dismissal may specify a date before which the faculty will not consider a petition for readmission from the dismissed student.

Expulsion.
Permanent separation of the student from the School of Medicine.
The above sanctions apply to the status of the accused student in the School of Medicine. Any sanction impacting a student's enrollment status and/or privileges will be forwarded to the Vice Chancellor for Student Affairs or designee for information purposes.

An oral presentation of the Council's findings and recommendations is permitted following the hearing, but a written document including findings of fact, verdict, and recommended disposition shall be completed as soon as possible after the hearing. This Final Report of the Council shall be submitted to the Coordinating Committee, the Dean, and the Office of the Vice Chancellor for Student Affairs.

VI. DECISION OF THE COORDINATING COMMITTEE
The findings and determination of the Honor Council serve as recommendations to the Coordinating Committee and to the Dean of the School of Medicine. The Coordinating Committee, chaired by the Associate Dean for Academic Affairs and composed of members detailed in The Academic Plan for the School of Medicine, reviews the charge of misconduct, the findings of fact, the decision of the Council, and the recommended discipline to be imposed from the Honor Council.

After deliberation and careful consideration, the Coordinating Committee approves, by simple majority vote, one of the following actions: 1) to sustain the recommendations of the Honor Council; 2) to amend the recommendations of the Honor Council to another type of sanction; 3) to remand the Honor Council's recommendations; or, 4) to reverse the Honor Council's recommendations.

The findings and determinations of the Honor Council and the Coordinating Committee shall be transmitted to the Dean in writing within seven (7) consecutive calendar days following the Coordinating Committee meeting. A copy of this recommendation shall also be transmitted to the accused student by certified mail or personal delivery in the indicated time frame.

VII. DECISION OF THE DEAN
Upon receipt of the documents from the Honor Council and the Coordinating Committee, the Dean shall review the entire record that includes the following: 1) formal notice of the charges; 2) minutes of the Honor Council hearing; 3) written findings of the Honor Council and its recommendations to the Coordinating Committee; and 4) written decision of the Coordinating Committee concerning the sanction passed.

The Dean will, within a reasonable amount of time, make a decision to either affirm, amend, or reverse the Coordinating Committee's sentence, or remand the Coordinating Committee for further proceedings.

The Dean shall notify the student in writing by certified mail or personal delivery of his/her final decision. Copies of the letter will be sent to the Honor Council Chair, the Coordinating Committee Chair, and the Evaluation Council Office for placement in the student's file and in the official hearing file.

VIII. RIGHT OF APPEAL
When a recommendation from the Honor Council and the Coordinating Committee is made for some form of disciplinary action other than "none", and this is upheld by the Dean, or if a recommendation of "no disciplinary action" is revised to one of greater severity by the Dean, the student may appeal such decision to the Chancellor or his/her designated representative by filing written notice of appeal with the Chancellor within ten (10) consecutive calendar days after notification of the decision of the Dean. A copy of the Notice of Appeal will also be given by the student to the Dean of the School of Medicine at the time of filing. The student may file a written memorandum for consideration by the Chancellor with the Notice of Appeal.

The Chancellor or his/her designated representative shall review the full record of the case and the appeal documents and may affirm, reverse, or remand the case for further proceedings and shall notify the Dean and the student in writing of the decision on the appeal. The action of the Chancellor shall be final unless it be to remand the matter for further proceedings.

Status during Appeal: In cases of suspension, dismissal or expulsion where a Notice of Appeal is filed within the required time, a student may petition the Chancellor in writing for permission to attend classes pending final determination of appeal. The Chancellor may permit a student to continue in school under such conditions as may be designated pending completion of appellate procedures, provided such continuance will not disrupt the University or constitute a danger to the health, safety or welfare of the University community. In such event, however, any final disciplinary action imposed shall be effective from the date of the action of the Dean.
IX. STATUS OF THE STANDARDS OF PROFESSIONAL CONDUCT

Amendments to the Standards of Professional Conduct and/or Honor Council Procedures for Violations may be proposed by petition of any twenty-five members of the student body, the Honor Council on its own motion, or the faculty.

A proposed amendment in the Standards of Professional Conduct and/or Honor Council Procedures for Violations must be approved by the Honor Council, the Coordinating Committee, the Dean, the Chancellor, and the Board of Curators.

The Standards of Professional Conduct and/or Honor Council Procedures for Violations may be terminated at any time by action under the general amending procedure.

To insure their knowledge of the Standards of Professional Conduct and Honor Council Procedures for Violations, the presentation of these documents shall be an integral part of the orientation of newly accepted students to the School of Medicine.

SCHOOL OF DENTISTRY HONOR CODES

STANDARDS OF PROFESSIONAL CONDUCT

(Approved by the Faculty of the School of Dentistry 9/12/2002, Curator approval 4/2004)

The School of Dentistry (SOD) has jurisdiction over incidents of alleged violations of the University of Missouri-Kansas City School of Dentistry's Standards of Professional, Ethical, and Behavioral Conduct. These rules and procedures apply to all students while in good standing who will follow the process identified in the Preliminary Procedures section of the UMKC School of Dentistry Honor Council Due Process Procedures for Violations of the Standards of Professional Conduct, to determine whether there has been a violation and whether charges should be brought.

The Honor Council has the authority to recommend sanctions upon any accused appearing before the Council. The disciplinary proceedings described are not to be construed as judicial trials. Case shall be taken, however, to comply as fully as possible with the spirit and intent of these procedural safeguards.

I. JURISDICTION OF THE SCHOOL OF DENTISTRY

The School of Dentistry (SOD) shall have jurisdiction over incidents of alleged violations of the University of Missouri-Kansas City School of Dentistry’s Standards of Professional, Ethical, and Behavioral Conduct. Sections IIA and IIB by students accepted into degree programs in the School of Dentistry while at the School of Dentistry or enrolled in any nursing course or on clinical rotations at affiliated institutions. Alleged violations of the University of Missouri Student Conduct Code as described in Section III will be referred to the Office of the Vice Chancellor for Student Affairs. The Standards of Professional and Ethical Behavior identify areas of conduct which are judged unacceptable for individuals who are either in or aspire to the profession of dentistry. The Standards of Professional and Ethical Behavior and these Procedures will be distributed to all newly enrolled students during orientation.

Amendments to the Standards of Professional Conduct and/or Honor Council Procedures for Violations may be proposed by petition of any twenty-five members of the student body, the Honor Council on its own motion, or the faculty.

A proposed amendment in the Standards of Professional Conduct and/or Honor Council Procedures for Violations must be approved by the Honor Council, the Coordinating Committee, the Dean, the Chancellor, and the Board of Curators.

The Standards of Professional Conduct and/or Honor Council Procedures for Violations may be terminated at any time by action under the general amending procedure.

To insure their knowledge of the Standards of Professional Conduct and Honor Council Procedures for Violations, the presentation of these documents shall be an integral part of the orientation of newly accepted students to the School of Dentistry.

A. Dental and dental hygiene students must achieve and consistently demonstrate acceptable levels of personal hygiene and dress.

B. Dental and dental hygiene students must achieve and consistently demonstrate concern for patients, peers, and others. Dental and dental hygiene health care providers have a duty to ensure:

1. Patients are treated according to their desires and must be included in treatment decisions.

2. Patient confidentiality in the entire range of the provider-patient relationship which includes dental records.

3. That no harm or potential harm is done to the patient either through intent, ignorance, lack of preparation for the patient encounter, lack of skill, personal impairment of any kind.

4. That no patient is “abandoned” which is defined as discontinuance of care without just cause and without giving the patient adequate notice and the opportunity to obtain the services of another provider.

5. That the patient’s welfare (i.e. the provision of competent and timely delivery of dental care within the bounds of clinical circumstances as presented by the patient such as needs, desires and values) is paramount and takes precedence above all else. This also includes the obligation to a) identify and report perisoral signs of abuse and neglect and to consult with faculty to report suspected cases to proper authorities as required by law; and, b) report instances of faulty treatment whether intentional or not, to the appropriate faculty member.

6. That all people including patients, staff, faculty and all other individuals are treated fairly, respectfully, and without prejudice.

7. All standards and requirements of patient care established by the School of Dentistry are followed.

C. Dental and dental hygiene students’ behavior must exemplify the highest moral and ethical standards. The following represents conduct that is incompatible with these standards:

1. Any behavior that tends to gain an unfair advantage for any student in an academic matter. This includes, but is not necessarily limited to, the following guidelines:

   a. No student shall, during an examination have, use or solicit any unauthorized information or material (written or oral), copy from another student’s paper or discuss the examination with any other person.

   b. No student shall during an examination knowingly give any unauthorized aid to another student.

   c. No student shall acquire by any means knowledge of the contents of an examination yet to be given.

   d. No student shall fraudulently claim credit for work performed by another.

Anyone who has reasonable cause to believe that a student has acted unethically is obligated to bring the matter to the attention of the Assistant Dean for Student Programs or the Dean.

II. SANCTIONS

The Honor Council shall have the authority to recommend sanctions upon any accused appearing before the Council. The disciplinary proceedings described are not to be construed as judicial trials. Case shall be taken, however, to comply as fully as possible with the spirit and intent of these procedural safeguards.
The following sanctions may be imposed upon any nursing student found to have violated Sections IIA and IIB of the University of Missouri – Kansas City School of Nursing Standards of Professional and Ethical Behavior:

**Warning** – A notice in writing that the student is violating or has violated the Standards of Professional and Ethical Behavior.

**Probation** – A written reprimand for violation of specific provisions of the Standards of Professional and Ethical Behavior that includes a designated period of time and the probability of more severe sanctions if the student violates any institutional regulations(s) during the probationary period.

**Loss of Privileges** - Denial of specified privileges in the School of Nursing for a designated period of time. Discretionary Sanctions. Work assignments in the School of Nursing, service to the School of Nursing, or other related discretionary assignments in the School of Nursing.

**Suspension from the School of Nursing** – An involuntary separation from the School of Nursing for a specified period of time after which the student is eligible to return. Conditions for readmission may be specified.

**Dismissal from the School of Nursing** – An involuntary separation from the School of Nursing for an indefinite period of time. It does not imply or state a minimum separation time.

**Expulsion from the School of Nursing** – Permanent separation from the School of Nursing.

### III. Organization of the Honor Council

#### A. Composition

The Honor Council members shall consist of the Chair; three voting faculty members, one representing each program, BSN, MSN, PhD (3 votes); five student members, 4 from the BSN program and one from the MSN or PhD program. Five members or their alternates (2 faculty, excluding the chair, and three students) constitute a quorum. An assigned staff member will assist the Chair in generation of reports and will be present at the hearings to take minutes.

#### B. Eligibility and Appointment

Faculty members Voting members of the faculty who have no more than a 50% administrative appointment are eligible to serve as chair or members of the honor council. Voting members of the School of Nursing Faculty Forum shall elect the chair of the Honor Council and the undergraduate and graduate faculty representatives. Alternates for each position will also be elected.

Student members In order to be eligible for election to the Honor council, students must be in good standing within the School. A student who is placed on academic or disciplinary probation is ineligible for service on the Honor council. In addition, a student may be determined ineligible for service if his or her membership on the Council is assessed by the Chair not to be in the best interest of the School.

Each BSN class shall elect their student representative and their alternates. The graduate representative and alternate shall be elected from among students in all SON graduate programs.

#### C. Time of Appointment and Term of Office

All members shall serve a one-year appointment, with the exception of the chair who will serve 2 years. Members may be serve more than one term if they are re-elected in subsequent years. Members will serve until they resign or a new member is voted into their position.

Election of student members shall be held on an annual basis at the beginning of the academic year, no later than September 15.

Election of faculty will occur at the last spring faculty forum meeting of the year for the next academic year during regular School committee elections. Faculty vacancies are filled by special election.

After fall elections, a preliminary meeting of all members (including the chair) will be held within two weeks in order to discuss the role and function of the Honor Council.

#### D. Hearing Panel of the Honor Council

All faculty representatives including alternate and the three most senior students not in the accused student’s class will serve as a hearing panel for the honor code violation. A chair of the Hearing Panel will be elected by simple majority vote of the members of the panel.

Voting by the hearing panel will take place by secret ballot.

The chair of the hearing panel will not vote except in case of a tie among the rest of the hearing panel in which case, the chair shall vote to break the tie.

Proxy votes will not be allowed.

#### E. Primary Administrative Liaison (PAL)

A primary administrative liaison (PAL) will be appointed by the Dean for a minimum of a two year term. The PAL is not eligible to serve as a member of the Honor Council while serving as the PAL. The PAL and the Chair, when possible, should be serve overlapping terms. The PAL will draft the charge and represent the School of Nursing in all cases.

### IV. Procedures for Report of Violation, Investigation, Informal Disposition, and Notice

#### A. Report of Violation

An alleged violation of the Standards of Professional and Ethical Behavior should be reported to the PAL of the Honor Council or designee as soon as possible after discovery of the incident. The PAL shall inform the chair and Honor Council of the alleged violation within one week if a hearing will be required. The Chair shall notify the Dean of all accusations. If the PAL determines that no violation occurred then the Dean and the Honor Council will be informed via an annual report submitted at the end of each academic year.

#### B. Preliminary Procedures and Meeting

The PAL shall determine whether the allegations fall within Sections IIA or IIB, or Section III of the Standards of Professional and Ethical Behavior, and shall refer any allegations of violations of Section II to the UMHC Office of Student Affairs. The PAL shall investigate any reported violation of Sections IIA or IIB before initiating formal conduct procedures.

The PAL will notify the accused, in writing by certified mail, of the allegations brought against him/her prior to the commencement of the preliminary meeting between the PAL and the student. In addition, the student shall receive a copy of these Procedures for Violations of the Standards of Professional and Ethical Behavior along with the written notice. The PAL shall meet with the accused student to give the student the opportunity to present a personal version of the incident or occurrence.

Following the investigation the PAL shall determine the appropriate preliminary outcome: no formal charge of misconduct, informal disposition, or formal disposition involving an honor council meeting. The PAL will notify the Chair and the Dean of the outcome as required in section IV A.

#### C. Informal Disposition

The PAL shall have the authority to propose appropriate sanctions to the accused student and within a week the student shall accept or reject a proposed informal disposition.

A failure of the student either to accept or reject the informal disposition within the 10 working days shall be deemed to be an acceptance and, in such event, the proposed disposition shall become final upon expiration of such time.

If the student rejects informal disposition, it must be in writing and the matter shall then be forwarded to the Honor Council for a formal hearing.

#### D. General Statement of Procedures

A student charged with a breach of the Standards of Professional and Ethical Behavior is entitled to a written notice of the charge against him or her and a formal hearing unless the matter is disposed of under the rules for informal disposition. Honor Code Procedures are not to be construed as judicial trials and need not wait for legal action before proceeding; however, care shall be taken to comply as fully as possible with the spirit and intent of the procedural safeguards set forth herein. The University of Missouri Office of the General Counsel shall be legal adviser to the Committee and to the PAL.
E. NOTICE

The PAL shall initiate formal proceedings by arranging with the chair to call a meeting of the Honor Council and by giving written notice to the accused student by email and by certified mail to the student’s last address currently on record with the Office of the Registrar. Failure of the student to have a current and correct local address on record shall not be construed to invalidate such notice. The notice shall set forth the date, time and place of the alleged violation and the date, time and place of the hearing before the Honor Council.

F. CONFLICTS OF INTEREST

Any member of the Honor Council may recuse him or herself if he or she believes he or she has a conflict of interest. The PAL or the accused student may raise the question of a member’s Conflict of Interest at the initial meeting of the Honor Council to hear the charge against the student, and the Chair will determine whether the member should be recused. The member will be replaced by his or her alternate. If both the member and the alternate are recused, the appropriate electing body will choose a second alternate for this case only. [See Section III for election procedures.]

G. TEMPORARY SUSPENSION

The Dean or his/her designee may at any time temporarily suspend or deny readmission to a student from the School of Nursing pending formal procedures when the Dean or his/her designee finds and believes from available information that the student would seriously disrupt the School of Nursing or constitute a danger to the health, safety or welfare of members of the School of Nursing Community. The appropriate procedure to determine the future status of the student will be initiated within seven calendar days.

V. PROCEDURE FOR HONOR COUNCIL HEARING

A. RIGHTS OF THE HONOR COUNCIL

- Hear together cases involving more than one accused student which arise out of the same transaction or occurrence, but in that event shall make separate findings and determinations for each accused;
- Permit a stipulation of facts by the involved accused and the PAL;
- Permit the incorporation in the record by a reference of any documentation produced and desired in the record by the PAL or the accused student;
- Question witnesses or challenge other evidence introduced by either the PAL or the accused student at any time;
- Hear from the PAL about dispositions made in similar cases and any dispositions offered to the student appearing before the Committee;
- Call additional witnesses or require additional investigation; · Dismiss any action at any time;
- Permit or require at any time amendment of the Notice of Hearing to include new or additional matters which may come to the attention of the Council before final determination of the case; provided, however, that in such event the Council shall grant to the accused or the PAL such time as the Council may determine reasonable under the circumstances to answer or explain such additional matters; and,
- Dismiss any person from the hearing who interferes with or obstructs the hearing or fails to abide by the rulings of the Council Chair.

B. RIGHTS OF THE ACCUSED STUDENT UPON HEARING – AN ACCUSED STUDENT APPEARING BEFORE THE HONOR COUNCIL SHALL HAVE THE RIGHT TO:

Submit, if he or she should choose to do so, a written response to the charge outlined in the Notice before the scheduled hearing is to commence;
- Review and obtain copies, in advance, of any materials that will be presented by the PAL at the hearing;
- Submit a written request for a list of witnesses to be called by the PAL at the hearing;
- Be present at the hearing;
- Have an advisor or counselor appear with the accused and to consult with such an advisor or counselor before and/or during the hearing; however, the advisor/counselor will not be allowed to question witnesses and/or address members of the Council. The accused student must notify the Chair at least 48 hours in advance with the name and relationship of the advisor and the name of any witness that will attend the hearing;
- Hear or examine evidence presented to the Honor Council; · Question the PAL and any witnesses who testify at the hearing;
- Present evidence by witness, affidavit, or documents in any media; · Make any statement to the Honor Council in mitigation or explanation of the conduct in question;
- Be informed in writing of the findings and any decisions imposed by the Honor Council;
- Appeal the decision and/or disposition to the Dean and to the Chancellor, as herein provided.

C. CONDUCT OF THE HEARING

All proceedings of the Honor Council are to be held in confidence by the members. The hearings shall be taped or stenographically recorded. The notice, exhibits, hearing record, verdict, and findings and determination of the Honor Council shall become the record of the Case and shall be filed in the Dean’s office at the School of Nursing. The record shall be accessible at the reasonable times and places to both the PAL and the accused student for the purpose of review or appeal.

The Honor Council Chair shall preside at the hearing, call the hearing to order, call the roll of the Honor Council members in attendance, ascertain the presence or absence of the accused student, read the Notice of Hearing and Charge and verify the receipt of Notice of Charge by the accused, report any continuances requested or granted, establish the presence of any adviser or counselor of the accused student, call to the attention of the accused student and the adviser any special or extraordinary procedures to be employed during the hearing, and permit suggestions for objections to any procedures for the Honor Council to consider. NOTE: Advisors will not be allowed to question the PAL, witnesses, and/or address members of the Council.

All requests to address the Council shall be addressed to the Chair. The Chair will rule on all requests and points of order and may consult with Council’s legal advisor prior to any ruling. The Chair’s ruling shall be final, and all participants shall abide thereby, unless the Chair shall present the question to the Council at the request of a member of the Council, in which event, the ruling of the Council by majority vote shall be final.

Rules of common courtesy and decency shall be observed at all times.

1. OPENING STATEMENTS:

- The PAL may make an opening statement outlining the general nature of the case.
- The accused student may make an opening statement to the Council about the charge at this time or at the conclusion of the School of Nursing’s presentation.

2. SCHOOL OF NURSING’S EVIDENCE:

- Witnesses of the School of Nursing are to be called, identified and questioned by the PAL, and any written reports or evidence introduced by the PAL as appropriate.
- The Council may question witnesses at any time.
- The accused student may question witnesses or examine evidence at the conclusion of the PAL’s presentation.

3. ACCUSED STUDENT’S EVIDENCE:

- If the accused student has not elected to make an opening statement previously, he or she shall have the opportunity to make a statement to the Honor Council about the charge at this time.
· The accused student may present evidence through questioning witnesses or by written memoranda or other documents.
· The Council may question the accused student or witnesses at any time.
· The PAL may question witness or examine evidence at the conclusion of the accused student's presentation.

4. REBUTTAL EVIDENCE:
The Honor Council may permit the PAL or the accused to offer a rebuttal to the other's presentation.

VI. DETERMINATION OF THE HONOR COUNCIL

Following the hearing, the Council shall promptly deliberate in closed session out of the presence of the accused, the witnesses, and the PAL. The Honor Council shall determine by a simple majority vote based on the evidence presented in the hearing whether they believe the student violated the Standards of Professional and Ethical Behavior as charged, and if so what sanction, if any, is appropriate. Separate findings shall be made as to the conduct of the student and as to the sanction, if any, to be imposed. The Council shall promptly submit its findings and determination in writing to the accused student and to the PAL.

The findings and determination of the Honor Council shall serve as a decision for the School of Nursing.

VII. APPEAL TO THE DEAN

If the student so desires, he or she may appeal the decision of the Council to the Dean within 10 business days of the Honor Council decision. A copy of the Notice of Appeal shall be given by the student to the PAL. The student may file a written memorandum for consideration by the Dean with the Notice of Appeal, and the Dean may request a reply from the PAL. The Dean shall review the record of the case and the appeal documents, and may affirm, reverse, or remand the case for further proceedings before the Honor Council.

The Dean shall notify the accused of his or her decision in writing, by certified mail. Copies of the letter will be sent to the Honor Council Chair, the PAL, and will be included with the official hearing file.

VIII. APPEAL TO THE CHANCELLOR

The accused student may appeal from the Dean's decision to the Chancellor or designated representative by filing written notice of appeal with the Chancellor within ten [10] business days after notification of the decision of the Dean. A copy of the Notice of Appeal will also be given by the accused to the Dean of the School of Nursing and to the PAL at the time of filing. The accused student may file a written memorandum for consideration by the Chancellor with the Notice of Appeal.

The Chancellor or designated representative shall review the record of the case and the appeal documents and may affirm, reverse, or remand the case for further proceedings and shall notify the Dean and the accused student in writing of the decision on the appeal. The action of the Chancellor shall be final unless it be to remand the matter for further proceedings.

IX. STATUS DURING THE APPEAL

In cases of suspension, dismissal or expulsion where a Notice of Appeal is filed within the required time, the accused student may petition the Chancellor in writing for permission to attend classes pending final determination of appeal. The Chancellor may permit the accused student to continue in school under such conditions as may be designated pending completion of appellate procedures, provided such continuance will not disrupt the University or constitute a danger to the health, safety or welfare of the University Community. In such event, however, any final disciplinary action imposed shall be effective from the date of the action of the Honor Council.

X. STATUS OF THE STANDARDS OF PROFESSIONAL AND ETHICAL BEHAVIOR

Amendments to the Standards of Professional and Ethical Behavior and/or Honor Council Procedures for Violations may be proposed by petition of any twenty-five members of the student body, or the Honor Council on its own motion, or the faculty.

A proposed amendment in the Standards of Professional and Ethical Behavior and/or Honor Council Procedures for Violations must be approved by a 2/3 majority vote of the Honor Council members present (all members have the right to vote on amendments = 9 votes), by a 2/3 majority vote of the faculty present, by the Chancellor, and by the Board of Curators.

The Standards of Professional and Ethical Behavior and/or Honor Council Procedures for Violations may be terminated at any time by action under the general amending procedure.

STANDARDS OF PROFESSIONAL AND ETHICAL BEHAVIOR UNIVERSITY OF MISSOURI – KANSAS CITY SCHOOL OF NURSING

I. PREAMBLE

One of the goals of a school of nursing is to educate student nurses during the transition to a professional life. The University of Missouri – Kansas City School of Nursing (UMKC-SON) has an obligation to society [1] to evaluate students pursuing the B.S.N., M.S.N., and Ph.D. degrees, as thoroughly as possible. This responsibility includes their cognitive abilities, their academic and professional knowledge and skills, their integrity, and their suitability to practice nursing in their desired professional role. Accordingly, the Standards of Professional and Ethical Behavior detailed in this document have been developed to guide students who are enrolled at all levels with the UMKC-SON, including undergraduate and graduate students, and are designed to assure accountability for the professional and ethical standards of the nursing profession.

II. INTEGRITY

A. PERSONAL AND PROFESSIONAL INTEGRITY

1. HONESTY

A student nurse shall deal honestly with people including, but not limited to, colleagues, instructors, representatives of the University, patients, attending physicians, nursing staff, any representative of our clinical agencies, and other members of the health care team. Student nurses are expected to demonstrate honesty and integrity in all aspects of their interaction with patients and staff – particularly in assuring accuracy and completeness in their actions and documentation. The student nurse shall be willing to admit errors and must not mislead others or promote himself or herself at the patient's expense. The student nurse shall strive to report, by utilizing the Honor Council Procedures for Violations of the Standards of Professional and Ethical Behavior, those student nurses deficient in character or competence, or who engage in fraud, deception, and/or dishonesty.

A basic principal underlying all research is honesty. Scientists and student nurses who participate in research have a responsibility to provide research results of the highest quality; to gather facts meticulously, to keep impeccable records of work done; to interpret results realistically, not forcing them into preconceived molds or models; and to report new knowledge through appropriate channels. Co-authors of research reports must be sufficiently acquainted with the work of their co-workers that they can personally vouch for the integrity of the study and validity of the findings, and must have been active in the research itself.

Examples of academic dishonesty include, but are not limited to, the following:

A. CHEATING

· Use of any unauthorized assistance in taking quizzes, tests, or examinations;
· Dependence upon the aid of unauthorized sources in writing papers, preparing reports, solving problems, or carrying out assignments;
· Acquisition or possession without permission of tests or other academic material belonging to a member of the University faculty or staff;
· Use of assignments or papers prepared in one class for another class without disclosing such information to the faculty;
· In any way giving assistance to others who are participating in any of the three preceding types of behavior; or
· Falsifying attendance records or other official documents.
B. Plagiarism
- Use by paraphrase or direct quotation of the published or unpublished work of another person without fully and properly crediting the author with footnotes, citations or bibliographical reference;
- Unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials; or
- Unacknowledged use of original work/material that has been produced through collaboration with others without release in writing from collaborators.

C. Sabotage
- Unauthorized interference with, modification of, or destruction of the work or intellectual property of another member of the University.

D. Falsification of Patient's Medical Record or Information

Examples of dishonesty related to clinical practice include, but are not limited to, the following:
- Writing progress notes or other documentation regarding the patient's status, including, but not limited to, clinical observations, medication administration or results in the patient's chart when the student nurse has not seen or evaluated the patient, or using incorrect times of data entry.
- Reporting medical information such as physical examination findings, lab values, test results, medications, or any other relevant patient information to other students, nurses, nursing supervisors, residents, attending physicians, the patient, the patient's family or other relevant health care personnel that has been fabricated by the student nurse.

2. Responsibility

A student nurse must acquire competencies with the appropriate concepts, knowledge and skills that the faculty determine essential. These competencies shall be utilized to care for the sick and to promote the health and welfare of society [2]. A student nurse shall recognize a responsibility to participate in activities contributing to an improved community.

Student nurses in the care of patients must not be harmful, dangerous, or negligent to the mental or physical health of a patient or the public. Negligent means failure to exercise that degree of skill and learning ordinarily used under the same or similar circumstances by other student nurses.

Students must be familiar with and follow the rules and regulations of the School of Nursing, the University, and professional organizations which they are required to follow as nursing students. Copies of such rules and regulations are attached herewith.

B. Professional Nursing Behavior

1. Nondiscrimination

A nursing student shall provide care to patients without discriminating based on race, color, creed, sex, age, national origin, disability or Vietnam Era Veterans status.

It is against the University regulations to discriminate on the basis of race, color, creed, sex, age, national origin, disability, or Vietnam Era Veterans status. The University has an AIDS policy statement consistent with state law that prohibits discrimination against persons with AIDS or who are HIV positive.

2. Confidentiality

A student nurse shall respect the rights of patients, colleagues, affiliated institutions, and other health professionals, and shall safeguard patient confidences within the constraints of law. The patient's right to confidentiality in regard to his or her medical record, which includes confidentiality of personal and social history, is a fundamental tenet to health care.

The discussion in public of the problems of an identified patient, without the patient's permission, by professional staff (including other students) violates patient confidentiality and is unethical. Under no circumstances can any medical record be removed from any institution. Photocopying of the entire record is never permitted for presentations, rounds, or conferences; if permitted by the health care institution or provider students are permitted to extract information, but not copy 'wholesale' parts of the chart. Names of the patients should be omitted from any documents used for these presentations.

3. Disclosure

While the student nurse is a member of the patient care team and under direct or indirect faculty supervision, a student nurse shall continue to study, apply and advance scientific knowledge, make relevant information available to patients, colleagues, and the public, obtain consultation and use the talents of other health professionals when indicated.

Sharing of medical information appropriately with a patient and colleagues involved in the care of the patient is a fundamental ethical requirement. The patient must be well informed to make health care decisions and work intelligently in partnership with the patient care team. Information that the patient needs for decision-making shall be presented in terms that patient can understand. If, for some reason, the patient is unable to comprehend, there shall be disclosure to the patient's authorized representative.

Failure of a student nurse to share medical information relevant to a patient with a patient and colleagues involved in the care of the patient is unethical. Providing inaccurate information with these individuals is also unacceptable.

4. Misconduct with Patients

The student nurse will not engage in nonprofessional behaviors with a patient – even upon the apparent request of a patient – while the student nurse is involved with the patient's care.

5. Representation

A student nurse shall accurately represent himself or herself to others including, but not limited to, colleagues, instructors, representatives of the University and their affiliates, partner institutions, patients, nurses, and other members of the health care team.

Examples of misrepresentation include, but are not limited to the following:
- Misrepresentation of the student's position, knowledge, and authority, including use of the title “nurse” by an undergraduate student nurse, or by use of the titles advanced practice nurse (APRN), nurse practitioner (NP), clinical nurse specialist (CNS), nurse midwife (NM), or nurse anesthetist (CRNA) by a graduate student.
- Use of fraud, deception, lies, or bribery in securing any certificate or registration or authority, diploma, permit or license issued, or in obtaining permission to take any examinations.
- Impersonation of any person holding a certificate of registration or authority, permit, license or allowing any person to use his/her certificate of registration or authority, permit license, or diploma from any school.
- Forgery, alteration, or misuse of a patient's medical records or knowingly furnishing false information to the other members of the health care profession and/or professional organizations.

6. Assessment of Personal Competence (Self-Evaluation)

Student nurses shall seek consultation and supervision whenever their ability to play their role in the care for a patient is inadequate because of lack of knowledge or experience. Students are expected to respond to constructive criticism by appropriate modification of behavior.

7. Professional Demeanor

The student nurse is a representative of UMKC, and should realize that their behavior may positively and negatively affect the judgments of others about UMKC-SON.

UMKC-SON students are expected to be thoughtful and professional when interacting with faculty, patients and their families, nurses, attending physicians, nursing preceptors, affiliated institutional staff, other students, and other members of the health care team.

Students shall maintain a neat and clean appearance, and dress in attire that is generally accepted as professional by the patient populations served.

Inappropriate behavior includes, but is not limited to, the use of offensive language, gestures, or remarks. Attempting, directly or indirectly, by way of intimidation, coercion or deception, to obtain
8. IMPAIRMENT

The student nurse will not use alcohol or drugs in ways that impair his/her ability to perform the work of the profession or results in compromised patient care. It is the responsibility of every student nurse to strive to protect the public from an impaired colleague and to assist that colleague whose capability is impaired because of alcohol or drug use.

9. CONFLICT OF INTEREST

If a conflict of interest arises, the moral principle is clear – the welfare of the patient must be, at all times, paramount. For example, gifts, hospitality, or subsidies offered by manufacturers and distributors of medical and or other equipment/goods shall not be accepted if acceptance would influence the objectivity of clinical judgment.

10. CRITICISM OF COLLEAGUES

Professional relations among all members of the medical community shall be marked by civility. Scholarly contributions shall be acknowledged and each person shall recognize and facilitate the contributions of others to this community; slanderous comments and acts are not acceptable. Student nurses shall deal with professional, staff, and peer members of the health team in a considerate manner and with a spirit of cooperation.

It is unethical and harmful for a student nurse to disparage, without sufficient evidence, the professional competence, knowledge, qualifications, or services of a colleague to anyone. It is also unethical to imply without reliable evidence – by word, gesture, or deed – that a patient has been poorly managed or mistreated by a colleague.

11. TEACHING

It is incumbent upon those entering this profession to teach what they know of the science, art, and ethics of nursing care. It includes communicating clearly and teaching patients so that they are properly prepared to participate in their own care and in the maintenance of their health.

III. THE UNIVERSITY OF MISSOURI STUDENT CONDUCT CODE

In addition to the conduct detailed in the preceding sections, a student nurse is subject to the University of Missouri Student Conduct Code, as administered by the Office of the Vice Chancellor for Student Affairs, except for provisions dealing with academic dishonesty, Section 200.010 B. 1.

Conduct for which students are subject to sanctions falls into the following categories:

A. Forgery, alteration, or misuse of University documents, records or identification, or knowingly furnishing false information to the University.
B. Obstruction or disruption of teaching, research, administration, conduct proceedings, or other University activities, including its public service functions on or off campus.
C. Physical abuse or conduct which threatens or endangers the health or safety of any person.
D. Attempted or actual theft of, damage to, or possession without permission of property of the University or of a member of the University community or of a campus visitor.
E. Unauthorized possession, duplication, or use of keys to any University facilities or unauthorized entry to or use of University facilities.
F. Violations of University policies, rules or regulations or of campus regulations including, but not limited to, those governing residence in University-provided housing, or the use of University facilities, or the time, place and manner of public expression.
G. Manufacture, use, possession, sale or distribution of alcoholic beverages or any controlled substance with out proper prescription or required license or as expressly permitted by law or University regulations.
H. Disruptive or disorderly conduct or lewd, indecent, or obscene conduct or expression.
I. Failure to comply with direction of University officials acting in the performance of their duties.
J. Illegal or unauthorized possession of firearms, explosives, other weapons, or dangerous chemicals.
K. Actual or attempted theft or other abuse of computer time, including but not limited to:
   - Unauthorized entry into a file to use, read, or change the contents, or for any other purpose;
   - Unauthorized transfer of a file;
   - Unauthorized use of another individual’s identification and password;
   - Use of computing facilities to interfere with the work of another student, faculty member, or University official;
   - Knowingly causing a computer virus to become installed in a computer system or file.

Details of the policies, procedures, sanctions, and due process for violations of the University of Missouri Student Conduct Code are found in the University of Missouri – Kansas City General Catalogue and the student handbook.


SCHOOL OF LAW HONOR CODES

I. PREAMBLE

We, the students at the University of Missouri - Kansas City School of Law, recognizing that the recorded evaluation of our academic pursuits must reflect the products of intelligence guided by integrity, do hereby establish this Honor Code so that all who may inquire can be assured that our individual accomplishments were honestly achieved; and so all who achieve may welcome inquiry. Wherefore we pledge ourselves, each and all, to careers founded in integrity and to the enforcement of the standards herein defined. Each student shall have the affirmative duty of assisting in the implementation of this Code.

II. DEFINITIONS

1. Academic Matter:
   All examinations, writing assignments, and programs or activities (such as Moot Court, Law Review or Urban Lawyer) which in any manner affect or result in a Law School grade or satisfaction of a requirement for graduation.

2. Accused:
   Student who is the subject of a hearing on an Honor Code violation.

3. Class:
   Group of students, based on year in Law School and academic progress. For the purposes of this code, those who are in their post third-year or are working on advanced degrees, shall be deemed third-year students.

4. Gender:
   Any use of grammatical gender reference shall be interpreted as applying equally to males and females.

5. Matter Relating to Academic Credentials:
Any representation made to any person concerning academic achievements or performance in Law School sponsored programs affecting a requirement for graduation.

6 SBA President:
President of the Student Bar Association.

7 Student:
A student (as defined in 200.020.B.8. of the University’s Collected Rules and Regulations) at the University of Missouri-Kansas City School of Law.

8 Unauthorized Sources:
All written material and persons except as otherwise authorized by the instructor.

III. VIOLATIONS

1 Jurisdiction:
Any conduct by a student that tends to gain or give an unfair advantage for any student in any academic matter or in any matter relating to academic credentials is considered unethical and a violation of the Code. It shall not be necessary for the Prosecutor to prove that any advantage was, in fact, achieved. Any conduct by a student impeding the fair operation of this Code is also a violation of this Code.

2 Specific Violations:

Prohibitions of the Code include, but are not limited to, the following:

- During an examination, no student shall have, consult, give to another, receive from another, or solicit from another any information or material unless specifically authorized by the instructor.
- No student shall knowingly convey, directly or indirectly, to another student any information about the contents of an examination that the other student has yet to take.
- No student, with the intent to improve his or her grade, shall convey to an instructor any information that tends to identify his or her authorship of an examination yet to be graded.
- No student shall work on his or her examination other than during the time prescribed, nor in a room other than one designated for the taking of the examination.
- For any assignment that counts toward a grade or is required for graduation, no student shall consult unauthorized sources of information.
- No student shall remove or withhold library material from the library, or secrete such material in the library, or destroy or mutilate such material, or use such material in a manner calculated to gain an unfair advantage for either him or herself or another student in connection with any academic matter.
- No student shall make any false representation on a resume, transcript or other written material relating to his or her Law School credentials. Nor may any student falsely represent his or her Law School credentials in any other way to a potential employer or academic institution.
- No student shall plagiarize. Violation of the plagiarism policy adopted by the faculty of the Law School on October 12, 1990 is a violation of the Code. A statement of the offense and definition of plagiarism is incorporated in this Code by reference and linked to this Code at the following Web address: http://www1.law.umkc.edu/academic/plagiarism.htm
- No student other than the accused shall fail to report a suspected violation of this Code or fail to give information about such violation, testify, or attend hearings authorized by the Code, except for good cause shown.
- No student witness shall fail to appear at a hearing held under the Code, unless good cause exists.
- No student shall improperly induce a person not to comply with this Code.
- No student shall fail to use best efforts in the performance of his or her duty under this Code.

3 Mens Rea:
Unless otherwise specifically stated in this Code, a student is not guilty of a violation unless he or she acted knowingly or recklessly with respect to each material element of the violation.

4 Specific Exclusions:
The Code does not cover:

- Infractions of rules limiting smoking, soft drinks and coffee, etc., to certain designated examination rooms.
- Disciplinary matters not related to academic credentials or academic matters. The University of Missouri Standards of Conduct details these matters not covered by this Honor Code.

IV. HONOR COURT AND PROSECUTOR

.01 Honor Court: There shall be a body known as the Honor Court composed of a Chief Justice and four Associate Justices. The Chief Justice shall be selected by a majority vote of the entire Court to serve at the pleasure of the Court.

The Honor Court shall hear all cases involving alleged violations of this Code by students, excepting those cases disposed of informally per 6.03. The proper Court to hear a charge shall be the Court sitting at the time of the hearing rather than at the time of the violation. The Court shall also make advisory opinions.

Four (4) Justices shall constitute a quorum. Each of the justices shall have one (1) vote. The Chief Justice shall be entitled to vote on all matters before the Court.

The Chief Justice, or his or her designee, shall inform new students of this Code during orientation. A copy of the Code shall be published in each edition of the Law School Student Handbook and available in the law building in the Dean’s office.

.02 Student Prosecutor. There shall be a Student Prosecutor and an Assistant Student Prosecutor. The Prosecutor shall conduct investigations and present the case against the accused. The Student Prosecutor shall not make plea agreements at any time.

V. APPOINTMENTS AND QUALIFICATIONS

.01 General. The Justices of the court shall be two third-year students, two second-year students and one first-year student. There shall be alternate justices in the same number and composition.

The Student Prosecutor shall be a third-year student. The Assistant Student Prosecutor shall be a second-year student.

.02 Appointment and Term of Office:

a) Justices. One first-year justice, one first-year alternate justice, one second-year justice, and one second-year alternate justice will be selected by the SBA President on the basis of applications submitted to him or her. The selection will be made at the first SBA meeting of the fall semester that includes the first-year representatives.

b) Prosecutor. The student prosecutor shall be the person who was the assistant student prosecutor during the previous academic year, provided, however, that if that person is no longer eligible, the SBA President shall select a student prosecutor. The selection of the assistant student prosecutor shall be made by the SBA President before the end of winter semester classes. Selections shall be made on the basis of the designee’s class for the following year.

.03 forfeiture of Office for Cause. A student is ineligible to continue as a Justice, Prosecutor or an alternate if he or she is placed on academic or disciplinary probation, or if for any other reason his or her continuation in office may not be in the best interest of the School of Law as determined by the Board of Governors.

.04 Disqualified from Duty. Justices or Prosecutors shall disqualify themselves from performing their duties when they feel that they cannot impartially perform those duties. The accused can raise or suggest grounds for such disqualification of a justice. The failure of Justices to disqualify themselves may be raised on appeal as a possible abuse of discretion.

Disqualification of a Justice or Prosecutor creates a temporary vacancy and shall be filled pursuant to 5.05(b).

.05 Vacancies.

a) Permanent Vacancies. If by graduation, or for any other reason, a permanent vacancy occurs during a normal term of office, such vacancy shall be filled in a manner consistent with 5.01. If for any reason a vacancy is not filled when needed, it may be treated as a temporary vacancy and filled as prescribed. 5.05(b).

b) Temporary Vacancies. Vacancies that are created when a student is unavailable, disqualifies him or herself or the Court sustains a challenge for cause, shall be filled by the SBA President who shall ask the alternate from the same class to serve. If the alternate is not available, the SBA President shall select another member of the class who is not ineligible to serve.

IV. VIOLATION AND INVESTIGATION REPORTS

.01 Reports Made. Any person may report a suspected violation of the Honor Code. Reports may be made to either the SBA President or to the Associate Dean.

If reported to the SBA President, the SBA President shall notify the Associate Dean of the report of a suspected violation as soon as possible.

.02 When Made. Reports of suspected Honor Code violations must be made within 45 days of the discovery of the suspected violation.

.03 Informal Disposition or Submission of Case to Student Prosecutor. The Associate Dean shall have the authority to investigate the reported suspected violation of the Honor Code before initiating formal disciplinary procedures and give the student the opportunity to present his/her personal version of the incident or occurrence. After doing so, the Associate Dean may, for good cause shown,
or any other affected parties for appropriate action.

The Dean’s decision shall be transmitted in writing to the accused and to the Chief Justice of the Honor Court. Where the accused has been found guilty by the Court, a copy of the Dean’s decision shall complete the form and forward a copy to all sitting justices. All such challenges must be made on a timely basis.

The report of the Court, including any concurring or dissenting opinions, and the entire record of the proceedings shall be submitted to the Dean and the accused as soon as possible after issuance.

The investigative power of the grand jury is strictly limited to the evidence presented by the Prosecutor. The grand jury shall not independently investigate the matter. The grand jury may submit written questions to the prosecutor through the Chief Justice.

d) The Chief Justice of the Honor Court will initiate the grand jury proceeding by informing the grand jury that the grand jury proceedings are to be confidential. The Chief Justice shall explain to the grand jurors signed statements that the grand jurors understand fully the duty of confidentiality. The Chief Justice shall advise the grand jurors that the information presented to the grand jury will be known only to the student prosecutor and the accused themselves and that a breach of confidentiality may be an Honor Code violation.

e) After the Chief Justice has fulfilled the obligations imposed by section (d), he or she should give the grand jury the sealed envelope provided by the Prosecutor containing the evidence presented by the Prosecutor or himself or herself from the grand jury proceedings.

f) After the Chief Justice has left the grand jury room, the grand jury will break the seal on the evidence envelope and examine the contents. The grand jury shall examine the evidence and determine whether probable cause exists for finding a violation of this Code. A decision shall be made within a reasonable period of time, not to exceed ten (10) days.

g) The finding of probable cause or the lack of probable cause will be determined by a majority vote of the grand jurors. This vote is binding on all members of the grand jury.

h) After the grand jury has reached a decision, it shall record that decision on the form provided for such purpose in the envelope described in 6.04(c) and sign it. The evidence shall be returned to the Prosecutor who shall verify that the envelope contains all the items of evidence the Prosecutor originally placed in the envelope.

i) The Chief Justice shall deliver the envelope with the grand jury finding to the Associate Dean. The Associate Dean shall break the seal on the envelope in the presence of the Prosecutor who shall verify that the envelope contains all the items of evidence the Prosecutor originally placed in the envelope.

j) The Associate Dean shall reveal the finding of the grand jury only in furtherance of the procedures of this Honor Code and then only to the necessary parties.

.06 Hearing Date and Notice. A hearing shall be held as soon as possible after the grand jury has determined that there is probable cause to believe the accused has violated the Honor Code. In no case shall there be more than 45 days elapse between the suspected violation report and the hearing, unless a later date is agreed upon by the Prosecutor and the student charged.

The student shall not be notified of a hearing in writing by the Chief Justice. The notice shall set forth the date, time and place of the alleged violation, the conduct to be inquired into, and the date, time, and place of hearing before the Honor Court. The notice shall be given at least seven (7) days in advance of the scheduled date of the hearing, unless a shorter time is fixed for good cause.

VII. HEARING PROCEDURE

.01 Confidentiality. Honor Court hearings shall be closed to the public unless the accused requests a public hearing, in which case one shall be provided. An audio recording shall be made of the proceedings and shall become part of the record.

.02 Ex Parte Communication. Except as to procedural matters, there shall be no ex parte communication with any Justice by the Prosecutor, by defense counsel or by the accused.

.03 Pre-Trial Motions. All pre-trial motions, including motions in limine, shall be in writing and given to the Chief Justice at least four days prior to the hearing. The Court may set a time limit on hearing pre-trial motions. The Court shall hear pre-trial motions no later than the day before the trial.

.04 Evidence. A student defendant or prosecutor appearing before the Honor Court shall have the right to present any evidence by witness or affidavit relating to any charge or defense. The formal rules of evidence and the rules of evidence of any other jurisdiction or other relevant evidence.

.05 Witnesses. At least two (2) days in advance of the scheduled date of the hearing, witnesses shall be notified by the party calling them of their obligation to appear. Witnesses shall bring with them whatever documentation is requested. Failure of a student witness to appear, without good cause, is a violation of this Code.

The Prosecutor may not call the defendant as a witness. The defendant may elect to testify or not, as he or she chooses. No unfavorable inference may be drawn should the defendant choose not to testify.

.06 The Court. The Chief Justice shall preside at the hearing. The Prosecutor shall present the case against the accused. The accused may represent him or herself or may be represented by an adviser or legal counsel.

.07 The Hearing. The Prosecutor shall make an opening statement and present the evidence against the accused. The Accused or his or her representative may elect to make an opening statement either at the conclusion of the Prosecutor’s opening or after the Prosecutor’s evidence has been presented. At the conclusion of the Prosecutor’s case-in-chief, the accused may present his or her evidence.

Each party shall have the right to cross-examine the opposing party’s witnesses. Either party may present further rebuttal evidence when, in the discretion of the Chief Justice such evidence is relevant and will not unduly delay the proceedings. After all evidence has been presented, the Prosecutor may make a closing argument, if so elected, the Prosecutor may present a rebuttal.

.08 Court’s Decision. The Court shall promptly deliberate and make its findings and determinations in executive session. If seventy-five percent (75%) of the members of the court find by decret and convincing evidence that the accused has committed the violations charged, it shall recommend to the Dean one or more of the sanctions prescribed in 8.02, subject to the mitigating circumstances exception in 8.03.

If at all possible, the Court shall render a decision immediately following its deliberations. No event shall its decision be announced later than three (3) days following the conclusion of the hearing. An oral presentation of the Court’s findings and recommendations is permitted following the hearing, but a written report including findings of fact, conclusions and recommended disposition shall be rendered to the Dean within one week after the conclusion of the hearing. Copies of the report shall be filed according to the procedure prescribed in 8.02.

The report of the Court, including any dissenting or dissenting opinions, and the entire record of the proceedings shall be submitted to the Dean and the accused as soon as possible after issuance.

.09 Procedural Questions. Procedural questions arising during the course of proceedings that are not covered by these rules shall be resolved by the Chief Justice. All objections concerning procedure shall be made/based in writing to the Chief Justice. The Chief Justice shall answer all objections in writing and forward both the objection and the decision to both the Prosecutor and defense counsel and to all other justices sitting on the Court for that hearing.

The decision of the Chief Justice on a procedural question may be challenged by the accused, the prosecutor, or a sitting member of the Court. The Chief Justice shall present any challenge to the sitting Court and the rules of the majority of the Court shall be final. There shall be a form, prepared by the Chief Justice, for appealing a procedural decision. The party challenging the decision shall complete the form and forward a copy to all sitting justices. All such challenges must be made on a timely basis.

.10 Review of Record by Dean. Upon receipt of the Court’s report, the Dean will, within a reasonable amount of time, review the entire record, including the Court’s findings of facts, conclusions and recommendations and render a decision in the case.

The Dean may remand for further consideration of specific issues. A decision by the Dean to remand shall include a list of questions for the Court. The Court shall then respond in writing within fourteen (14) calendar days. The Dean may not reverse a finding of not guilty by the Court.

The Dean’s decision shall be transmitted in writing to the accused and to the Chief Justice of the Honor Court. Where the accused has been found guilty by the Court, a copy of the Dean’s decision will be placed in the student’s official file.

VIII. SANCTIONS

.01 Report of Misconduct. Where a finding that the accused has violated the Code has been made, the misconduct may be called to the attention of the proper University authorities, Bar authorities or any other affected parties for appropriate action.

.02 Sanctions. The following sanations may be recommended by the Court to the Dean and imposed by the Dean:

a) Expulsion. Permanent separation of the student from the School of Law.

b) Dismissal. An involuntary separation of the student from the School of Law. It does not imply or state a minimum separation time.
c) Suspension. Separation of the student from the School of Law for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.

d) Probation. Disciplinary probation, subject to any appropriate terms or conditions.

e) Reprimand. Written or oral reprimand.

.03 Mitigating Circumstances. When considering a recommended sanction upon finding that a violation has occurred, the Court may consider mitigating circumstances such as, but not limited to, any physical, mental, financial, or emotional problems of the accused. If the severity of mitigating circumstances requires, the Court may recommend no sanction be levied on the accused, even though a violation has occurred.

If the Court considers mitigating circumstances when recommending a sanction, the written report of the Court shall include a full explanation thereof.

IX. APPEALS

.01 Right to Petition for Review (other than dismissal or suspension). In all cases where the discipline imposed by the Dean is other than dismissal or suspension, the accused may petition the Chancellor in writing for a review of the decision within ten (10) consecutive calendar days.

.02 Right of Appeal (dismissal or suspension only). When a student is dismissed or suspended from the University for an Honor Code violation by the Dean, the student may appeal such decision to the Chancellor within twenty (20) consecutive days after notification of the decision of the Dean. A copy of the notice of appeal will be contemporaneously given by the student to the Dean. The student may file a written memorandum for consideration by the Chancellor with the notice of appeal, and the Chancellor may request a reply to such memorandum by the appropriate party. The Chancellor or his/her designee shall review the full record of the case and the appeal documents and may affirm, reverse, or remand the case for further proceedings and shall notify the Dean and the student in writing of the decision of the appeal. The action of the Chancellor shall be final unless it be to remand the matter for further proceedings.

.03 Status During Appeal. In the cases of suspension or dismissal where a notice of appeal is filed within the required time, a student may petition the Chancellor in writing for permission to attend classes pending final determination of appeal. The Chancellor may permit a student to continue in school under such conditions as may be designated pending completion of appellate procedures, provided such continuance will not seriously disrupt the University or constitute a danger to the health, safety or welfare of the University community. In such event, however, any final disciplinary action imposed shall be effective from the date of the action of the Dean.

X. ADVISORY OPINIONS

.01 When required to do so, the Court may render advisory opinions on matters relating to the application of the Code.

.02 A box shall be located in a public area of the School for the purpose of receiving written requests by students of the Law School for advisory opinions.

.03 The Honor Court shall submit its advisory opinion, in writing, to the Dean and the SBA President.

.04 The Dean, within a reasonable time, shall respond to the advisory opinion.

.05 The advisory opinion and the Dean's response shall be appropriately posted and made available to the students in the library.

.06 Conduct consistent with an advisory opinion shall be presumed not to be in violation of the Code.

XI. AMENDMENTS

.01 Amendments to the Honor Code may be proposed by petition of any ten (10) students, by the Board of Governors of the Student Bar Association on its own motion, or by petition of a majority of the Honor Court.

.02 A proposed amendment shall be adopted if at the adoption election at least two-thirds (2/3) of the students voting shall vote favoring the proposed amendment.

XII. ADOPTION

This Honor Code shall be in effect when approved by a two-thirds vote of the students voting, by the Dean of the School of Law, the Chancellor, and by the Board of Curators.

Policies and Procedures

POLICIES AND PROCEDURES

- Student Conduct
- Rules of Procedures in Student Conduct Matters
- Attendance Policy
- Acceptable Use Policy
- Policy on Student Records
- Procedure for Appeal of Grades
- Academic Amnesty Policy
- Academic Amnesty Procedures
- Equal Opportunity Procedures
  - Guidelines on Sex Discrimination
  - Guidelines on Discrimination on the Basis of Religion or National Origin
  - Guidelines on Sexual Harassment
  - Minimum Standards of Progress for Veterans
  - Discrimination Grievance Procedure for Students
- Policy on Positive Work and Learning Environment

STUDENT CONDUCT

(200.010 Standard of Conduct; Amended Bd. Min. 3-20-81; Bd. Min. 8-3-90, Bd. Min 5-19-94; Bd. Min. 5-24-01.)

This policy is also available at http://www.umsystem.edu/ums/departments/go/rules/program/200/010.shtml.

A student enrolling in the University assumes an obligation to behave in a manner consistent with the University's function as an educational institution.

A. JURISDICTION OF THE UNIVERSITY OF MISSOURI generally shall be limited to conduct which occurs on the University of Missouri premises or at University-sponsored or University-supervised functions. However, nothing restrains the administration from taking appropriate action, including, but not limited to, the imposition of sanctions under Section 200.020 (C), against students for conduct on or off University premises in order to protect the physical safety of students, faculty, staff and visitors.

B. CONDUCT for which students are subject to sanctions falls into the following categories:

1. Academic dishonesty, such as cheating, plagiarism, or sabotage. The Board of Curators recognizes that academic honesty is essential for the intellectual life of the University. Faculty members have a special obligation to expect high standards of academic honesty in all student work. Students have a special obligation to adhere to such standards. In all cases of academic dishonesty, the instructor shall make an academic judgment about the student's grade on that work and in that course. The instructor shall report the alleged academic dishonesty to the Primary Administrative Officer.

a. The term cheating includes but is not limited to:

   i. use of any unauthorized assistance in taking quizzes, tests, or examinations;

   ii. failure to acknowledge the sources of information and work of others from which the information or work was used, except that, when information or work is used as an example, the students' names may be included in the example;

   iii. the submission of work that is not the student's own or the unauthorized alteration of work submitted by others;

   iv. the use of any unauthorized means of communication to gain an advantage in an examination or test; and

   v. the unauthorized use of any other means to obtain an advantage in tests or examinations.

2. Physical violence, threats of violence, or any conduct likely to create a condition of unreasonable fear of physical harm. This conduct may include any action or course of conduct that has the effect of intimidating, causing fear of physical harm, or creating an intimidating or hostile environment that interferes with an individual's educational opportunity.

3. Theft or illegal possession of University property or property from University buildings.

4. Misuse or abuse of university resources or facilities.

5. Indecent or profane language or behavior.

6. Uncooperative conduct with University authorities.

7. Underage drinking or the use of alcohol or drugs in violation of the Code.

8. Disturbances and disorders.

9. Damage to the University's property or property of others.

10. Insubordination of a student to any university official.


12. Violations of the Law, including but not limited to, traffic violations and violations of criminal law.

13. Misuse of property or resources of the university or the community.

14. Violations of the University's policy on positive work and learning environment.

15. Violations of the University's Equal Opportunity Procedures.

16. Violations of the University's guidelines on sexual harassment.

17. Violations of the University's guidelines on sex discrimination.

18. Violations of the University's guidelines on discrimination on the basis of religion or national origin.

19. Violations of the University's guidelines on sexual harassment.

20. Violations of the University's minimum standards of progress for veterans.

21. Violations of the University's discrimination grievance procedure for students.

22. Violations of the University's policy on academic amnesty.

23. Violations of the University's policy on student records.

24. Violations of the University's attendance policy.

25. Violations of the University's policy on procedures in student conduct matters.

26. Violations of the University's rules of procedures in student conduct matters.

27. Violations of the University's academic amnesty policy.

28. Violations of the University's academic amnesty procedures.
RULES OF PROCEDURES IN STUDENT CONDUCT MATTERS

C. SANCTIONS.

(b) The term plagiarism includes, but is not limited to:

(i) use by paraphrase or direct quotation of the published or unpublished work of another person without fully and properly crediting the author with footnotes, citations or bibliographical reference;

(ii) unknowingly use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials; or

(iii) unknowingly use of original work/material that has been produced through collaboration with others without release in writing from collaborators.

(c) The term sabotage includes, but is not limited to, the unauthorized interference with, modification of, or destruction of the work or intellectual property of another member of the University community.

6. Forgery, alteration, or misuse of University documents, records or identification, or knowingly furnishing false information to the University.

7. Obstruction or disruption of teaching, research, administration, conduct proceedings, or other University activities, including its public service functions on or off campus.

8. Physical abuse or other conduct which threatens or endangers the health or safety of any person.

9. Attempted or actual theft of, damage to, or possession without permission of property of the University or of a member of the University community or of a campus visitor.

10. Unauthorized possession, duplication or use of keys to any University facilities or unauthorized entry to or use of University facilities.

11. Violation of University policies, rules or regulations or of campus regulations including, but not limited to, those governing residence in University-provided housing, or the use of University facilities, or the time, place and manner of public expression.

12. Manufacture, use, possession, sale, or distribution of alcoholic beverages or any controlled substance without proper prescription or required license or as expressly permitted by law or University regulations, including operating a vehicle on University property, or on streets or roadways adjacent to and abutting a campus, under the influence of alcohol or a controlled substance as prohibited by law of the state of Missouri.

13. Disruptive or disorderly conduct or lewd, indecent, or obscene conduct or expression.

14. Failure to comply with directions of University officials acting in the performance of their duties.

15. The illegal or unauthorized possession or use of firearms, explosives, other weapons, or hazardous chemicals.

16. Misuse in accordance with University policy of computing resources, including but not limited to:

a. Actual or attempted theft or other abuse.

b. Unauthorized entry into a file to 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.

A. PREAMBLE. The following rules of procedure in student conduct matters are hereby adopted in order to insure as far as possible and practicable

(a) that the requirements of procedural due process in student conduct proceedings will be fulfilled by the University,

(b) that the immediate effectiveness of Section 10.030, which is Article V of the Bylaws of the Board of Curators relating to student conduct and sanctions may be secured for all students in the University of Missouri, and

(c) that procedures shall be definite and determinable within the University of Missouri.

B. DEFINITIONS. As used in these rules, the following definitions shall apply:

1. Primary Administrative Officers. As used in these procedures, the Chief Student Affairs Administrator on each campus is the Primary Administrative Officer except in cases of academic dishonesty, where the Chief Academic Administrator is the Primary Administrative Officer. Each Primary Administrative Officer may appoint designee(s) who are responsible for the administration of these conduct procedures, provided all such appointments must be in writing, filed with the Chancellor of the campus, and the office of General Counsel. The Primary Administrator's Office will certify in writing that the given designee has been trained in the administration of student conduct matters.

2. Student Panel. A panel of students appointed by the Chancellor, from which shall be selected by the Chair, upon the request of a student charged before the Student Conduct Committee, not more than three students to serve with the Student Conduct Committee.

3. Student. A person having once been admitted to the University who has not completed a course of study and who intends to or does continue a course of study in or through one of the campuses of the University. For the purpose of these rules, student status continues whether or not the University's academic programs are in session.

4. Student Conduct Committee. As used in these procedures, "Student Conduct Committee," hereinafter referred to as the Committee, is that body on each campus which is authorized to conduct hearings and to make dispositions under these procedures or a Hearing Panel of such body as herein defined.

C. SANCTIONS.

1. The following sanctions may be imposed upon any student found to have violated the Student Conduct Code; more than one of the sanctions may be imposed for any single violation:

a. Warning. A notice in writing to the student that the student is violating or has violated institutional regulations.

b. Probation. A written reprimand for violation of specified regulations. Probation is for a designated period of time and includes the probability of more severe sanctions if the student is found to be violating any institutional regulation(s) during the probationary period.

c. Loss of Privileges. Denial of specified privileges for a designated period of time.

d. Restitution. Compensation for loss, damage, or injury to the University or University property. This may take the form of appropriate service and/or monetary or material replacement.

e. Discretionary Sanctions. Work assignments, service to the University, or other related discretionary assignments.

f. Residence Hall Suspension. Separation of the student from the residence halls for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.

g. Residence Hall Expulsion. Permanent separation of the student from the residence halls.

h. University Dismissal. An involuntary separation of the student from the institution for misconduct apart from academic requirements. It does not imply or state a minimum separation time.

i. University Suspension. Separation of the student from the University for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.

j. University Expulsion. Permanent separation of the student from the University.

2. Temporary Suspension. The Chancellor or Designee may at any time temporarily suspend or deny readmission to a student from the University pending formal procedures when the Chancellor or Designee finds and believes from available information that the presence of a student on campus would seriously disrupt the University or constitute a danger to the health, safety, or welfare of members of the University community. The appropriate procedure to determine the future status of the student will be initiated within seven calendar days.

D. RECORDS RETENTION. Student conduct records shall be maintained for five years after University action is completed.

E. POLICY AND PROCEDURES.

1. Preliminary Procedures. The Primary Administrative Officer/Designee(s) shall investigate any reported student misconduct before initiating formal conduct procedures and give the student...
the opportunity to present a personal version of the incident or occurrence. The Primary Administrative Officer/Designee(s) may discuss with any student such alleged misconduct and the student shall attend such consultation as requested by the Primary Administrative Officer/Designee(s). The Primary Administrative Officer/Designee(s), in making an investigation and disposition, shall consult with student courts and boards and/or divisional deans to make recommendations.

8. 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 disposition and the result of the student’s failure to formally reject and, in such event, the proposed disposition shall become final upon expiration of such time. If the student rejects informal disposition it must be in writing and shall be forwarded to the Committee. The Primary Administrative Officer/Designee(s) may refer cases to the Committee without first offering informal disposition.


a. Student Conduct Committee:

   (1) The Committee shall be appointed by the Chancellor and shall have the authority to impose appropriate sanctions upon any student or students appearing before it.

   (2) The Committee, when appropriate or convenient, may be divided by the Chair of the Committee into Hearing Panels, each panel to be composed of at least five Committee members, which may include a maximum of two students, present at the hearing, including a designated chair. A Hearing Panel has the authority of the whole Committee in those cases assigned to it. The Chair of the Committee or of a Hearing Panel shall count as one member of the Committee or Hearing Panel and have the same rights as other members.

   (3) Each Chancellor shall appoint a panel of students, to be known as the Student Panel. Upon written request of a student charged before the Committee, made at least seventeen (17) hours prior to the hearing, the Chair of the Committee or Hearing Panel shall appoint from the Student Panel not more than three students to sit with the Committee or two students to sit with the Hearing Panel (as stated in 4.a.(2)) for that particular case. When students from the Student Panel serve at the request of a student charged, they shall have the same rights as other members of the Committee or Hearing Panel.

b. General Statement of Procedures.

   A student charged with a breach of the Student Conduct Code is entitled to a written notice and a formal hearing unless the matter is disposed of under the rules of 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 advisor to the Committee and the Primary Administrative Officer/Designee(s).

   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 to the student charged. Written notice of the alleged violation and the date, time, and place of the hearing shall be mailed to the student charged at the current correct local address 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.

   Rebuttal Evidence.

a. In 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.

11. Right of Appeal: (University expulsion, University dismissal, or University suspension only)

   When a student is expelled, dismissed, or suspended by the University by the Committee, the Primary Administrative Officer/Designee(s), or the student may appeal such decision to the Chancellor or Designee by filing written notice of appeal with the Chancellor within ten (10) calendar days after notification of the decision of the Committee. A copy of the Notice of Appeal must also be served upon the nonappealing party. 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.

12. 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.

13. 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 established or in personal delivery be presented by the student charged. A Board shall set forth in writing the decision on the appeal. The action of the Chancellor shall be final unless it is to remand the matter for further proceedings. 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 Curators' Bylaws, Section 200, 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 advisor or counselor of the student, and call to the attention of the student charged and the adviser any special or extraordinary procedures to be employed during the hearing and permit the student to make suggestions regarding or objections to any procedures for the Conduct Committee to consider.

   (a) Opening Statements.

   (1) The Primary Administrative Officer/Designee(s) shall make opening remarks outlining the general nature of the case and testify to any facts the investigation has revealed.

   (2) The student may make a statement to the Committee about the charge at this time or at the conclusion of the University's presentation.

   (b) University Evidence.

   (1) University witnesses are to be called and identified or written reports of evidence introduced as appropriate.

   (2) The Committee may question witnesses at any time.

   (3) The student or, with permission of the Committee, the adviser or counselor may question witnesses or examine evidence at the conclusion of the University's presentation.

   (c) Student Evidence.

   (1) If the student has not elected to make a statement earlier under a. (2) above, the student shall have the opportunity to make a statement to the Committee about the charge.

   (2) The student may present evidence through witnesses or in the form of written memoranda.

   (3) The Committee may question the student or witnesses at any time. The Primary Administrative Officer/Designee(s) may question the student or witnesses.

   (d) Rebuttal Evidence. The Committee may permit the University or the student to offer a rebuttal of the other's presentation.

   (e) Rights of Student Conduct Committee. The Committee shall have the right to:

   (1) Hear together cases involving more than one student which arise out of the same transaction or occurrence, but in that event shall make separate findings and determinations for each student;

   (2) Permit a stipulation of facts by the Primary Administrative Officer/Designee(s) and the student involved;

   (3) Permit the incorporation in the record by reference of any documentation, produced and desired in the record by the University or the student charged;

   (4) Question witnesses or challenge other evidence introduced by either the University or the student at any time;

   (5) Hear from the Primary Administrative Officer/Designee(s) about disposals made in similar cases and any disposals offered to the student appearing before the Committee;
ATTENDANCE POLICY

This policy applies to all users including faculty, staff, students, and guest users of University of Missouri computer networks, equipment, or connecting resources.

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 (even in nature of the observance prevents the student from being present during class), representation of UMKC in an official capacity, and other compelling circumstances beyond the student's control. Students seeking an excused absence must provide documentation upon request to substantiate the excuse. Students with excused absences shall undertake appropriate make-up or alternative work to be provided by instructors of the courses in which excused absences were incurred.

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

This policy was approved July, 2002 and effective Fall, 2002.

ACCEPTABLE USE POLICY

(110.005 Acceptable Use Policy; Bd. Min. 9-14-00.)

This policy is also available at http://www.umsystem.edu/ums/departments/gc/rules/facilities/110/005.shtml.

This policy applies to all users including faculty, staff, students, and guest users of University of Missouri computer networks, equipment, or connecting resources.
A. UNIVERSITY INSPECTION OF PERSONAL ELECTRONIC INFORMATION -- Electronic information on University networks or equipment, including, but not limited to, electronic mail and personal information, is subject to examination by the University where:

1. It is necessary to maintain or improve the functioning of University computing resources;
2. Where there is a suspicion of misconduct under University policies, or suspicion of violation of Federal or State laws; or
3. It is necessary to comply with or verify compliance with Federal or State law.

B. ACCEPTABLE USE GUIDELINES

1. Responsibilities of Users of University Computer Resources:
   a. Respect the intellectual property rights of authors, contributors, and publishers in all media.
   b. Protect user ID, password, and system from unauthorized use.
   c. Adhere to the terms of software licenses and other contracts. Persons loading software on any University computer must adhere to all licensing requirements for the software. Except where allowed by University site licenses, copying software licensed for University use for personal use is a violation of this policy.
   d. Adhere to other University and campus policies, including the Collected Rules and Regulations of the University of Missouri, and, if applicable, the University Business Policy Manual, Human Resources Manual and policies established for a specific resource.
   e. Adhere to data access policies of the University or those established by law.
   f. Use University computer resources in a manner that is compliant with University policies and State and Federal law.

2. Prohibited Uses of University Computer Resources:
   a. Unauthorized or excessive personal use. Use may be excessive if it overburdens a network, results in substantial use of system capacity, or otherwise subjects the institution to increased costs or risks (employees additionally may be subject to discipline for unauthorized or excessive personal use of computer resources).
   b. Uses that interfere with the proper functioning of the University's information technology resources.
   c. Uses that unreasonably interfere with the ability of others to make use of University computer resources.
   d. Attempting to gain or gaining unauthorized access to the computer system, or files of another.
   e. Use of University computer resources to infringe the intellectual property rights of others.
   f. Use of University computer resources for personal profit, except as permitted under the University's conflict of interest policy.

C. ENFORCEMENT OF ACCEPTABLE USE POLICY -- Violation of the Acceptable Use Policy may result in a denial of access to University computer resources, and those disciplinary actions provided or authorized by the Collected Rules and Regulations of the University of Missouri.

Students who violate these guidelines will be subject to sanctions as outlined in section 200.010 of the Student Conduct Code. All such cases will be forwarded to the Primary Administrative Officer in the Student Life Office for appropriate action.

Faculty or staff who violate these guidelines will be subject to disciplinary measures as outlined within the University Policy Manuals.

Violations of some of the above guidelines may constitute a criminal offense. Individuals using UMKC computing resources are urged to review the University Policy Manual, Computer Crimes Bill passed by the Missouri State Legislature and the MOREnet Acceptable Use Policy, all of which are stored on-line for easy access.

POLICY ON STUDENT RECORDS

(180.020 Student Records; Bd. Min. 6-10-59, p. 15,059; Bd. Min. 2-28-75; Amended 3-18-77; Bd. Min. 5-24-01.)

This policy is also available at http://www.umsystem.edu/ums/departments/gc/rules/information/180.020.shtml.

A. PURPOSE. The purpose of this regulation is to set forth the guidelines governing the protection of the privacy of student records and to implement The Family Educational Rights and Privacy Act of 1974 (Buckley Amendment; Pub. L. 93-380, as amended). These regulations apply to all students who are or have attended the University of Missouri.

B. DEFINITIONS.

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 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.
Records on a student who is attending the University, that are:
(a) Made or maintained by a physician, psychiatrist, psychologist or other recognized professional or paraprofessional acting in his or her professional capacity or assisting in a paraprofessional capacity;
(b) Made, maintained, or used only in connection with treatment of the student; and
(c) Disclosed only to individuals providing the treatment. For the purpose of this definition, "treatment" does not include remedial educational activities or activities that are part of the program of instruction at the University; and
(5) Records that only contain information about an individual after he or she is no longer a student at the University.
12. "Parent" means a natural parent, an adoptive parent or the legal guardian of the student.
13. "Party" means an individual, agency, institution or organization.
14. "Personally identifiable information," includes:
   a. The student's name;
   b. The name of the student's parent or other family member;
   c. The address of the student or student's family;
   d. A personal identifier, such as the student's social security number or student number;
   e. A list of personal characteristics that would make the student's identity easilytraceable; or
   f. Other information that would make the student's identity easily traceable.
15. "Record" means information or data recorded in any medium, including, but not limited to handwriting, print, computer media, video or audio tape, film, microfilm, and microfiche.
16. "Student" means any person who is or has been in attendance at the University where the University maintains education records or personally identifiable information on such person. However, the term does not include a person who has not been in attendance at the University of Missouri.
17. "University Official" is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff), a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.
C. NOTIFICATION OF ACCESS RIGHTS BY THE UNIVERSITY.
1. The University shall annually notify students currently in attendance of their rights under the Act. 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 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.
2. 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; and
   c. A specification of criteria for determining who constitutes a school official and what constitutes a legitimate educational interest, as listed in Section 180.020 M.1.a.
4. The University may provide this notice by any means that are reasonably likely to inform the students of their rights. The University shall effectively notify students who are disabled.
D. RECORDS OF THE UNIVERSITY'S LAW ENFORCEMENT UNIT.
1. "Law enforcement unit" means any individual, office, division or other component of the University, such as the University of Missouri Police Department or noncommissioned security guards, that is officially authorized or designed by the University to:
   a. Enforce any local, state or federal law, or refer to appropriate authorities a matter for enforcement of any local, state or federal law against any individual or organization other than the University itself; or
   b. Maintain the physical security and safety of the University.
2. A component of the University does not lose its status as a "law enforcement unit" if it also performs other, non-law enforcement functions for the University, including investigation of incidents or conduct that constitutes or leads to a disciplinary action or proceedings against the student.
3. "Records of law enforcement unit" means those records, files, documents, and other materials that are:
   a. Created by a law enforcement unit;
   b. Created for a law enforcement purpose; and
   c. Maintained by the law enforcement unit.
4. "Records of law enforcement unit" does not mean:
   a. Records created by a law enforcement unit for a law enforcement purpose that are maintained by a component of the University other than the law enforcement unit; or
   b. Records created and maintained by a law enforcement unit exclusively for a non-law enforcement purpose, such as disciplinary action or proceeding conducted by the University.
5. The University may contact its law enforcement unit, orally or in writing, for the purpose of asking that unit to investigate a possible violation of, or to enforce, any local, state or federal law.
6. Education records, and personally identifiable information contained in education records, do not lose their status as education records and remain subject to the Act, as well as the disclosure provisions of Section 180.020 L, while in possession of the law enforcement unit.
E. RIGHTS OF INSPECTION AND REVIEW OF EDUCATION RECORDS.
1. The University shall provide students access to their educational records except as provided in Section 180.020 G.
2. The University shall comply with a request within a reasonable period of time, but in no case more than 45 days after the request has been received.
3. The University shall respond to reasonable requests for explanations and interpretations of those records.
4. 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.
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 charge a fee to search for or to retrieve the education records of a student.
G. LIMITATION ON ACCESS.
1. If the education records of a student contain information on more than one student, the student may inspect and review or be informed of only the specific information about that student.
2. The University will not permit a student to inspect and review education records that are:
   a. Financial records, including any information those records contain, of his or her parents;
   b. Confidential letters and confidential statements of recommendation placed in the education records of the student before January 1, 1975, as long as the statements are used only for the purposes for which they were specifically intended; and
   c. Confidential letters and confidential statements of recommendation placed in the student's education records after January 1, 1975, if:
      (1) The student has waived his or her right to inspect and review those letters and statements; and
      (2)
Those letters and statements are related to the student's:
(a) Admission to the University;
(b) Application for employment; or
(c) Receipt of an honor or honorary recognition.

H. WAIVERS.

1. A waiver under Section 180.020 G is valid only if:
   a. The University does not require the waiver as a condition for admission to or receipt of a service or benefit from the University; and
   b. The waiver is made in writing and signed by the student, regardless of age.

2. If a student has waived his or her rights under Section 180.020 G, the University shall:
   a. Give the student, on request, the names of the individuals who provided the letters and statements of recommendation; and
   b. Use the letters and statements of recommendation only for the purpose for which they were intended.

3. A waiver under Section 180.020 G may be revoked with respect to any actions occurring after the revocation. A revocation must be in writing.

I. AMENDMENT OF EDUCATION RECORDS.

1. If a student believes the education records relating to the student contain information that is inaccurate, misleading, or in violation of the student's rights of privacy, he or she may ask the University to amend the record by contacting the University Registrar.

2. The University shall decide whether to amend the record as requested within a reasonable time after the request is received.

3. If the University decides not to amend the record as requested, the University Registrar shall inform the student of its decision and of his or her right to a hearing under Section 180.020 J.

J. RIGHTS TO A HEARING.

1. The University shall give a student, on request, an opportunity for a hearing to challenge the content of the student's education records on the grounds that the information contained in the education records is in violation of the privacy rights of the student.

2. If, as a result of the hearing, the University decides that the information is inaccurate, misleading, or otherwise in violation of the privacy rights of the student, it shall:
   a. Amend the record accordingly; and
   b. Inform the student of the amendment in writing.

3. If, as a result of the hearing, the University decides that the information in the education record is not inaccurate, misleading, or otherwise in violation of the privacy rights of the student, it shall inform the student of the right to place a statement in the record commenting on the contested information in the record or stating why he or she disagrees with the decision of the University, or both.

4. If the University places a statement in the education records of a student, it shall:
   a. Maintain the statement with the contested part of the record for as long as the record is maintained; and
   b. Disclose the statement whenever it discloses the portion of the record to which the statement relates.

K. CONDUCT OF A HEARING.

1. 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.

2. The hearing shall be conducted and decided within a reasonable period of time following the request for the hearing. The University shall give the student notice of the date, time, and place, reasonably in advance of the hearing.

3. The hearing shall be conducted and the decision rendered by an appointed hearing official or officials who shall not have a direct interest in the outcome of the hearing.

4. The student shall be afforded a full and fair opportunity to present evidence relevant to the hearing, and may be assisted or represented by individuals of his or her choice at his or her own expense, including an attorney.

5. The decision of the University shall be based solely upon the evidence presented at the hearing and shall include a summary of the evidence and the reasons for the decision.

6. The decision shall be rendered in writing within a reasonable period of time after the conclusion of the hearing.

7. Either party may appeal the decision of the hearing official or officials to the campus Chancellor.

L. CONDITIONS UNDER WHICH PRIOR CONSENT IS REQUIRED.

1. The student shall provide a signed and dated written consent before the University discloses personally identifiable information from the student's education records, except as provided in Section 180.020 M.

2. The written consent must:
   a. Specify the records that may be disclosed;
   b. State the purpose of the disclosure; and
   c. Identify the party or class of parties to whom the disclosure may be made.

3. If a student so requests, the University shall provide him or her with a copy of the records disclosed.

M. CONDITIONS UNDER WHICH PRIOR CONSENT IS NOT REQUIRED.

1. The University may disclose personally identifiable information from an education record of a student without the consent required by Section 180.020 L if the disclosure meets one or more of the following conditions:
   a. The disclosure is to other University officials, including teachers, within the University who have been determined by the University to have legitimate educational interests. A University official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.
   b. The disclosure is to officials of other schools or school systems in which the student seeks or intends to enroll, upon condition that the student is notified of the transfer, receives a copy of the record if requested, and has an opportunity for a hearing to challenge the content of the record.
   c. The disclosure is, subject to the requirements of Section 180.020 P, to authorized representatives of:
      (1) The Comptroller General of the United States;
      (2) The Attorney General of the United States;
      (3) The Secretary; or
      (4) State and local educational authorities.
   d. The disclosure is in connection with financial aid - defined as a payment of funds provided to an individual (or a payment in kind of tangible or intangible property to the individual) that is conditioned on the individual's attendance at the University - for which the student has applied or which the student has received, if the information is necessary for such purposes as to:
      (1) Determine eligibility for the aid;
      (2) Determine the amount of the aid;
      (3) Determine the conditions for the aid; or
      (4) Enforce the terms and conditions of the aid.
   e. The disclosure is to state and local officials or authorities to which such information is specifically required to be reported or disclosed pursuant to a state statute adopted prior to November 19, 1974.
   f. The disclosure is to organizations conducting studies for, or on behalf of, educational agencies or institutions to develop, validate, or administer predistive 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.
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

P. DISCLOSURE OF INFORMATION FOR FEDERAL OR STATE PROGRAM PURPOSES.

O. LIMITATIONS TO THE REDISCLOSURE OF INFORMATION.

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;
   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;
   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;
   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;
   e. A party seeking or receiving the records as directed by a federal grand jury or other law enforcement subpoena and the issuing court or other issuing agency has ordered that the existence or the contents of the subpoena or the information furnished in response to the subpoena not be disclosed.

O. LIMITATIONS TO THE REDISCLOSURE OF INFORMATION.

1. The University may disclose personally identifiable information from an education record only on the condition that the party to whom the information is disclosed will not disclose the information to any other party without the prior consent of the student. The officers, employees, and agents of a party that receives information may use the information, but only for the purposes for which the disclosure was made.

2. This does not prevent the University from disclosing personally identifiable information with the understanding that the party receiving the information may make further disclosures of the information on behalf of the University if:
   a. The disclosures meet the requirements of Section 180.020 M; and
   b. The University has complied with the requirements of Section 180.020 N.3.

3. Section 180.020 O.1 does not apply to disclosures made pursuant to court orders, lawfully issued subpoenas, litigation under Section 180.020 M.1.i, to disclosures of directory information under Section 180.020 M.1.k, to disclosures made to a parent or student under Section 180.020 M.1.j, to disclosures made in connection with a disciplinary proceeding under Section 180.020 M.1.n, or to disclosures made to parents under Section 180.025.

4. Except for disclosures under Section 180.020 M.1.k, l, m, and n, the University shall inform a party to whom disclosure is made of the requirements of this section.

5. If the University determines that a third party improperly rediscloses personally identifiable information from education records in violation of Section 180.020 O.1, the University may not allow that third party access to personally identifiable information from education records for at least five years.

P. DISCLOSURE OF INFORMATION FOR FEDERAL OR STATE PROGRAM PURPOSES.

1. The officials listed in Section 180.020 M.1.c may have access to education records in connection with an audit or evaluation of federal or state supported education programs, or for the enforcement of compliance with federal legal requirements which relate to those programs.

2. This information must:
   a. Be protected in a manner that does not permit personal identification of individuals by anyone except the officials referred to in part 1 of this section; and
   b. Be destroyed when no longer needed for the purposes listed in part 1 of this section.

3. Part 2 of this section does not apply if:
   a. The student has given written consent for the disclosure under Section 180.020 L; or
   b. The collection of personally identifiable information is specifically authorized by Federal law.

Q. RELEASE OF INFORMATION FOR HEALTH OR SAFETY EMERGENCIES.
The University may release information from an education record to appropriate persons in connection with an emergency if the knowledge of such information is necessary to protect the health or safety of a student or other persons. The factors which will be taken into account in determining whether the records may be released under this section include the following:

1. The seriousness of the threat to the health or safety of the student or other persons;
2. The need for such records to meet the emergency;
3. Whether the persons to whom such records are released are in a position to deal with the emergency; and
4. The extent to which time is of the essence in dealing with the emergency.

R. CONDITIONS FOR DISCLOSURE OF DIRECTORY INFORMATION.
1. The University may disclose directory information if it has given public notice to students in attendance at the University of:
   a. The types of personally identifiable information that the University has designated as directory information;
   b. A student's right to refuse to let the University designate any or all of those types of information about the student as directory information; and
   c. The period of time within which a student has to notify the University in writing that he or she does not want any or all of those types of information about the student designated as directory information.
2. The University may disclose directory information about former students without meeting the conditions of this section.

S. DEFINITIONS APPLYING TO THE NONCONSENSUAL DISCLOSURE OF RECORDS IN CONNECTION WITH DISCIPLINARY PROCEEDINGS CONCERNING CRIMES OF VIOLENCE OR NON-FORCIBLE SEX OFFENSES. As used in this part:
1. “Alleged perpetrator of a crime of violence” is a student who is alleged to have committed acts that would, if proven, constitute any of the following offenses or attempts to commit the
corresponding offenses.
2. “Alleged perpetrator of non-forcible sex offenses” means a student who is alleged to have committed acts that, if proven, would constitute statutory rape or incest. These offenses are
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 according to more exacting or demanding standards than were applied to other students in the course; (Note: Additional or different grading
criteria may be applied to graduate students enrolled for graduate credit in 300- and 400-level courses.)
• The assignment of a grade by a substantial departure from the instructor's previously announced standards.

Appeal Procedures
1. The student should first discuss the course grade fully with the instructor of the course. This must be done within six weeks after the beginning of the succeeding regular academic semester.
2. If the matter cannot be resolved by consultation with the instructor, the student should use the departmental grade-appeal procedure. Every academic unit (school, College or department)
must have a set of appeal procedures that are to be made available to students on request. These procedures will specify the manner in which the departmental review of the challenged
grade will be conducted.
3. If the matter is not resolved at the departmental level, an appeal can be made to the academic dean, in accordance with the school's or College's appeals process. The decision of the dean will be communicated to the student, the instructor and the department.
4. If the matter is not resolved within the school or College, the student may appeal to the chancellor or designated representative. This appeal must be made within 10 consecutive calendar
days after notification of the decision of the dean.
5. The chancellor or designated representative shall review the full record of the case and appeal documents. At this level, the chancellor may appoint an ad hoc academic appeals committee to
review the record and provide advice on the matter.

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 as 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, XBL,...XF. These hours and grades will remain on the transcript, but will not count toward cumulative hours nor GPA, nor
can they be used to fulfill any degree requirements, regardless of the original grade.
3. A statement "Grades granted amnesty by faculty committee action" (or similar) will follow the courses granted amnesty.
4. The change to the transcript will be processed within 30 days following an approved petition for amnesty but in no case sooner than the end of the fourth week of classes in the first term in
which the student re-enrolls. If the student then withdraws before grades are awarded at the end of that term the grades will be returned to the original grades.
5. Students can receive amnesty only one time.

ACADEMIC AMNESTY PROCEDURES
1. Application may be made by use of a standard application form available online at www.umkc.edu/registrar/forms.html or by any written document or letter which contains the necessary
   information (see form). Applications should be submitted to the UMKC Records Office, to the attention of the Assistant Registrar—Records, prior to the first day of classes in the student’s
   second semester of readmission.
2. Amnesty applications are acted upon by a standing faculty committee to be appointed by the Provost's Office.
3. Notification of committee decisions will be made in writing to the student and the appropriate Academic Deans by the UMKC Records Office.

GUIDELINES ON SEX DISCRIMINATION
The University of Missouri-Kansas City complies with Title IX of the Educational Amendment of 1972 which ensures that all employees and students are not victims of sex discrimination. To ensure
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:

D. Redress Procedures.

1. The University’s Office of Equal Opportunity/ Affirmative Action and external communications media have made known that equal employment opportunity without regard to religion or national origin is the policy of the University. All employees of the University must be committed to equal employment for all persons without regard to religion or national origin.
2. In all of its recruitment sources, the University of Missouri-Kansas City expresses that it is committed to equal employment opportunity without regard to religion or national origin.
3. Through local and national publications, as well as through its Web site job listings at http://www.umkc.edu/html/acjobs and http://www.umkc.edu/adminfinance/hr/jobs/index.asp, the University informs the public, including community, religious and ethnic groups, of employment opportunities available at the University of Missouri-Kansas City.
4. The University of Missouri-Kansas City accommodates the religious observance and practices of all employees when reasonably possible.
5. The University has taken the above steps to eliminate discrimination based on religion or national origin. Employees who believe they have been discriminated against on the basis of religion or national origin may use the University’s internal grievance procedures.

GUIDELINES ON DISCRIMINATION ON THE BASIS OF RELIGION OR NATIONAL ORIGIN

Members of various religious and ethnic groups, primarily but not exclusively of Eastern, Middle and southern European ancestry, such as Muslim, Jewish, Catholic, Italian, Greek and Slavic groups, continue to be excluded from executive, middle management and other job levels because of discrimination based on their religion or national origin. Under the Equal Opportunity Clause contained in section 202 of Executive Order 11246 as amended, the University of Missouri-Kansas City does not discriminate against employees or applicants for employment because of religion or national origin, and employees are treated during employment without regard to their religion or national origin. To ensure this, the University of Missouri-Kansas City has taken the following steps:

1. The University’s Office of Equal Opportunity/ Affirmative Action and external communications media have made known that equal employment opportunity without regard to religion or national origin is the policy of the University. All employees of the University must be committed to equal employment for all persons without regard to religion or national origin.
2. In all of its recruitment sources, the University of Missouri-Kansas City expresses that it is committed to equal employment opportunity without regard to religion or national origin.
3. Through local and national publications, as well as through its Web site job listings at http://www.umkc.edu/html/acjobs and http://www.umkc.edu/adminfinance/hr/jobs/index.asp, the University informs the public, including community, religious and ethnic groups, of employment opportunities available at the University of Missouri-Kansas City.
4. The University of Missouri-Kansas City accommodates the religious observance and practices of all employees when reasonably possible.
5. The University has taken the above steps to eliminate discrimination based on religion or national origin. Employees who believe they have been discriminated against on the basis of religion or national origin may use the University’s internal grievance procedures.

GUIDELINES ON SEXUAL HARASSMENT

(Executive Order No. 20, 3-17-81; 330.060 Sexual Harassment; Bd. Min. 3-18-93.)

This policy is also available at http://www.umsystem.edu/ums/departments/qs/rules/personnel/330.060.shtml.

This University of Missouri policy aims for an increased awareness regarding sexual harassment by making available information, education and guidance on the subject for the University community.

A. Policy Statement. It is the policy of the University of Missouri, in accord with providing a positive, discrimination-free environment, that sexual harassment in the work place or educational environment is unacceptable conduct. Sexual harassment is subject to discipline, up to and including separation from the institution.

B. Definition. Sexual harassment is defined for this policy as either

1. Unwelcome sexual advances or requests for sexual activity by a University employee in a position of power or authority to a University employee or a member of the student body, or
2. Other unwelcome verbal or physical conduct of a sexual nature by a University employee or a member of the student body to a University employee or a member of the student body, when:
   a. Submission to or rejection of such conduct is used explicitly or implicitly as a condition for academic or employment decisions; or
   b. The purpose or effect of such conduct is to interfere unreasonably with the work or academic performance of the person being harassed; or
   c. The purpose or effect of such conduct, to a reasonable person, is to create an intimidating, hostile, or offensive environment.

C. Non-Retaliation. This policy also prohibits retaliation against any person who brings an accusation of discrimination or sexual harassment or who assists with the investigation of sexual harassment. Notwithstanding this provision, the University may discipline an employee or student who has been determined to have brought accusation of sexual harassment in bad faith.

D. Redress Procedures. Members of the University community who believe they have been sexually harassed may seek redress, using the following options:

1. Pursue appropriate informal resolution procedures as defined by the individual campuses. These procedures are available from the campus Equal Opportunity/Affirmative Action Officer.
2. Initiate a complaint or grievance within the period of time prescribed by an applicable grievance procedure. Faculty are referred to Section 370.010, "Academic Grievance Procedures", staff to Section 385.010, "Grievance Procedure for Administrative, Service and Support Staff" and students to Section 390.010, "Discrimination Grievance Procedure for Students". Pursuing a complaint or informal resolution procedure does not compromise one's rights to initiate a grievance or seek redress under state or federal laws.

E. Discipline. Upon receiving a charge of sexual harassment against a member of faculty, staff, or student body, the University will investigate and, if substantiated, will initiate the appropriate disciplinary procedures. There is a five-year limitation period from the date of occurrence for filing a charge that may lead to discipline. An individual who makes an accusation of sexual harassment will be informed:

• At the close of the investigation, whether or not disciplinary procedures will be initiated; and

MINIMUM STANDARDS OF PROGRESS FOR VETERANS

Veterans Affairs regulations require that all veterans drawing VA educational benefits at UMKC must comply with the Veterans Affairs Minimum Standards of Progress. These standards dictate that the veteran must be making satisfactory progress toward a degree while enrolled. The University’s academic and probation policies have been approved by the Veterans Affairs as those Minimum Standards of Progress.

Undergraduate Student

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

1. In general, students will be placed on academic probation whenever their official UM grade-point average falls below 2.0 (C average). Some academic units may have a higher grade-point average requirement. New freshman admitted to UMKC on the basis of high school records, who have grade-point averages between 1.90 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 regulations.
2. Students on academic probation will be restored to good standing when their UM grade-point average reaches 2.0 or the GPA level established by their academic units.
3. Students on academic probation must maintain the grade-point average required by their academic units during each subsequent semester or summer session while on probation. Otherwise, they are ineligible to re-enroll without the approval of the academic units.
4. Students on academic probation must remove themselves from probation within three successive semesters (including the semester in which they originally were placed on probation). Otherwise, they are ineligible to re-enroll without the approval of the academic units.
5. Students are responsible for knowing their academic status by referring to the term grade reports and their permanent academic records in the UMKC Records Office.

Graduate and Professional Students

Because there may be some variation in the academic and probation policies in the various graduate and professional schools within the University, reference should be made to the appropriate sections in this catalog.

Conduct

Institutional policy relating to conduct for veteran students is the same as for all other students. Statement of requirements is shown elsewhere in this catalog.

Student Records

 Adequate records are kept by the school to show the progress of each eligible veteran. The records are sufficient to show continued pursuit at the rate for which enrolled and the progress being made.

These records include the final grade in each subject completed and a record of the date of withdrawal from any class the veteran does not complete. The last date of attendance must be reported to the Veterans Affairs.
DISCRIMINATION GRIEVANCE PROCEDURE FOR STUDENTS

(390.010 Discrimination Grievance Procedure for Students; Bd. Min. 12-17-82, Bd. Min. 1-25-90, Amended Bd. Min. 10-16-03)

This policy is also available at http://www.umsystem.edu/ums/departments/gg/rules/grievance/390/010.shtml

A. General

1. It is the policy of the University of Missouri to provide equal opportunity for all enrolled students and applicants for admission to the University on the basis of merit without discrimination on the basis of race, color, religion, sex, national origin, handicap, or age. Vietnam-era veteran status, or Vietnam-era veteran's preference in employment is also required. 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 related 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 who has applied for admission or who is currently enrolled, or who has a student of the University of Missouri at the time of the alleged discrimination.

4. Persons with disabilities--For the purpose of this student discrimination grievance procedure, a "person with a disability" has been substituted for "handicapped individual" (Section 504, Rehabilitation Act of 1973) and shall be defined as "... any person who:

   a. Has a physical or mental impairment which substantially limits one or more of such person's major life activities;
   b. Has a record of such impairment; or
   c. Is regarded as having such an impairment." For purpose of this definition, "major life activity" means any mental or physical function or activity which, if impaired, creates a substantial barrier to employment or education. Any reference in this document to written materials or to written or oral presentations within the student discrimination grievance procedure may be adjusted to accommodate persons with disabilities for whom the stated materials or required presentations would not be appropriate. Cost of such accommodation will be borne by the University, with no charge to the individual.

5. Appropriate Administrative Officer -- The primary administrative officer on the staff of the Chancellor (in the area of Student Affairs/Services, Administrative Services, Development, and Academic Affairs) having the 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 advisor 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 shall informally discuss a complaint with the appropriate supervisor. Every reasonable effort shall 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 their 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 the matter to the immediate supervisor of the appropriate admission committee.

6. Complaints Involving Admissions (Graduate) -- Applicants to the Graduate School may ask for a meeting with the academic department head of the program to which the applicant was seeking admission. This official shall explain the reasons for the denial of recommendation for admission. If a satisfactory resolution is not reached, the applicant may then appeal to the Dean of the Graduate School or to the appropriate admissions committee. If the denial is upheld, the applicant may appeal the decision to the appropriate administrative officer.

7. Complaints Involving Admissions To or Treatment in an Educational Program or in the Granting of Assistantships -- An undergraduate or graduate student enrolled at the institution who has a discrimination complaint involving admission to or treatment in an educational program or in the granting of assistantships may request a conference with the appropriate department head and with the Dean of the School or College (or the Dean's designee) to discuss the matter informally. If a satisfactory resolution is not reached, the student may present a grievance pursuant to Section 390.010 F.

8. Complaints Involving Non-academic Matters Related to Campus Living and Student Life -- A currently enrolled student who has a University-related complaint concerning discrimination in non-academic matters including but not limited to assignment of roommates, actions of fraternities and sororities, membership in or admission to clubs/organizations, student health services and financial aid awards, may request a conference with the appropriate administrative supervisor, department head or director to discuss the matter informally. If a satisfactory resolution is not reached, the student may present a grievance pursuant to Section 390.010 D.

9. Complaints Involving Student Employment on Campus -- A student enrolled at the University who alleges that discrimination occurred either in applying for work or while working as a student employee at a University job may request a conference with the supervisor, department head or director of the employing unit to discuss the matter informally. If a satisfactory resolution is not reached, the student may present a grievance pursuant to Section 390.010 D.

10. Complaints Involving Financial Aid (Undergraduate, Graduate, Professional)

   a. Undergraduate, graduate and professional student aid recipients shall present complaints to the Director of Student Financial Aid where the application was originally filed or the award originally made.
   b. This University official shall compare the person's financial and academic qualifications against the official University financial aid criteria and review the award amount or denial of the aid. If the original judgment is sustained, the applicant may appeal this decision to the official's immediate supervisor or to the appropriate financial aid committee.

D. Initiating a Grievance

1. Policies and Procedures -- A student with a grievance will be provided copies of appropriate policies and procedures pertaining to student complaints and grievances, and the Chief Student Personnel Administrator or designee, and the Officer for Equal Opportunity/Affirmative Action, shall be available to assist the student in understanding the opportunities afforded through such policies and procedures. The student may choose to have an advisor participate in any stage of the grievance procedure, subject to the restrictions of the hearing procedures set forth in Section 390.010 F.
E. Formation of a Grievance Committee

1. 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 shall be constituted. The panel shall consist of ten (10) faculty, ten (10) staff and ten (10) students. Selection of the panel will be made by the Chief Student Personnel Administrator from recommendations by the appropriate faculty, staff and student associations. Selection of members will be based on 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 is serving at that time on a hearing committee still in the process of reviewing an unresolved grievance. In such case, the member’s term shall expire as soon as the committee has submitted a written report of its findings and recommendations to the Appropriate Administrative Officer.

3. A hearing committee shall be composed of five (5) hearing panel 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 fifteen (15) working days of the receipt of the request. The four committee members shall select an additional member from the grievance hearing panel to serve as chair. Each committee member must demonstrate that he/she has been involved in the resolution of grievances on a regular basis for at least one (1) year.

4. Each party to the hearing shall be advised at least ten (10) days prior to the hearing of the names of the hearing committee members and the names of the witnesses. 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.

5. The hearing committee may call new witnesses whose testimony it deems relevant or helpful. Any party to the hearing may object to the testimony of any witness and the committee shall be required to render a decision as to whether the testimony is relevant or helpful.

6. A quorum consists of a minimum of four members of the committee as provided by Section 390.010 E.4. The hearing committee shall include the grievant, the respondent and at least two (2) other members of the hearing committee as determined by the chairperson. The grievant and the respondent shall be permitted to present their case as determined by the chairperson. 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.

7. 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.

8. Any party to the hearing may request that the committee provide a written report of its findings and recommendations to the Appropriate Administrative Officer. Such a request shall be made within fifteen (15) working days after the hearing.

9. 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.

10. Regardless of the hearing committee’s decision, the Appropriate Administrative Officer may refer the decision to the Board of Curators for final decision. If the Appropriate Administrative Officer refers the case to the Board of Curators, the Board of Curators shall make its decision within thirty (30) days from the receipt of the recommendation of the administrative officer.

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 by the Chancellor. Any request for a review and decision by the Chancellor shall be made within thirty (30) calendar days. The decision of the Chancellor can be appealed to the President, shall have thirty (30) calendar days in which to make a decision, which shall be final.

12. 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.

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 chair will appoint a chairperson from among the members to preside over subsequent meetings. The chairperson will be selected by secret ballot of the committee members.

3. The chairperson’s term shall expire as soon as the committee has submitted a written report of its findings and recommendations to the Appropriate Administrative Officer.

4. At the conclusion of the grievance hearing, the principal party shall be notified of the results of the hearing. This notice shall be given in writing and signed by the chairperson.

5. The hearing 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 the presentation of evidence in writing and for the questioning of witnesses and the presentation of evidence by the other party.

d. Reasonable time limit should be established for opening and closing statements and should be announced prior to the hearing.

e. Length of hearings may be extended in advance; every effort should be made to conduct the hearing as expeditiously as possible, with equal fairness to both parties.

f. 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 the adviser and witnesses.

g. After initial witnesses for both parties have been heard, such witnesses may be recalled for additional questioning if requested by either party or the grievance committee. The chairperson may call new witnesses whose testimony it deems relevant or helpful.

h. Any party to the hearing may request the presence of his/her advisor during the hearing.

i. In order to promote the truthful, unfeathered exchange of information and ideas, all testimony pertaining to the grievance hearing shall be held in confidence.

j. Only evidence relevant to the grievance may be introduced. Questions regarding the admissibility of evidence shall be decided by the chairperson.

k. Any party 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 reserving 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.

l. Any party to the hearing may object to the testimony of any witness and the committee shall be required to render a decision as to whether the testimony is relevant or helpful.

m. 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.

n. 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 by the Chancellor. Any request for a review and decision by the Chancellor shall be made within thirty (30) calendar days. The decision of the Chancellor can be appealed to the President, shall have thirty (30) calendar days in which to make a decision, which shall be final.

o. 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.

p. 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.

q. 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 by the Chancellor. Any request for a review and decision by the Chancellor shall be made within thirty (30) calendar days. The decision of the Chancellor can be appealed to the President, shall have thirty (30) calendar days in which to make a decision, which shall be final.

r. 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.

s. 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 by the Chancellor. Any request for a review and decision by the Chancellor shall be made within thirty (30) calendar days. The decision of the Chancellor can be appealed to the President, shall have thirty (30) calendar days in which to make a decision, which shall be final.

t. 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.

u. 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 by the Chancellor. Any request for a review and decision by the Chancellor shall be made within thirty (30) calendar days. The decision of the Chancellor can be appealed to the President, shall have thirty (30) calendar days in which to make a decision, which shall be final.

v. 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.

w. 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 by the Chancellor. Any request for a review and decision by the Chancellor shall be made within thirty (30) calendar days. The decision of the Chancellor can be appealed to the President, shall have thirty (30) calendar days in which to make a decision, which shall be final.
Student Discrimination Grievance Procedure Form

(Use additional sheets if needed)

1. Your Name:
   
   Check One: Male____ Female____

   Student I.D. No.:

   Mailing Address:

   City, State, Zip Code:

   Telephone:

   2. Submitted to (Campus specific title for Chief Student Personnel Administrator):

   On (Month/Day/Year):

   3. The basis for the grievance is alleged discrimination on the basis of (Race/Color/Religion/Sex/National Origin/Age/Disability):

   4. University official or unit against whom this grievance is filed (Name/ Department):

   5. Explain in a clear and detailed statement the following:

   a. The nature of the grievance and a description of specific supporting evidence:

   b. The specific remedial action or relief sought:

   For grievances alleging discrimination to admission and/or treatment while enrolled in an educational program, employment on campus, or other matters of consequence relating to campus living or activities.

   c. A summary outlining with whom the point(s) of dissatisfaction were discussed and with what results:

   6. Date you consider the "Informal discussion" ended:

I HAVE READ AND UNDERSTAND THE ABOVE GRIEVANCE FORM AND GRIEVANCE PROCEDURE FOR STUDENTS. THIS GRIEVANCE I AM FILING IS TRUE TO THE BEST OF MY KNOWLEDGE, INFORMATION, OR BELIEF.

Signature________________________________ Date_______________

This form forwarded to (Appropriate Administrative Officer):

On (Month/Day/Year):

By (Campus-specific title for Chief Student Personnel Administrator):

(Campus Address)

Suggested Format for Hearing

I. Opening remarks accompanied by written submission of parties' outlines of relevant, non-redundant evidence to be offered to committee.

   a. Grievant

   b. Respondent

II. Consideration of any decision on objections to acceptance of items of evidence.

III. Presentation of relevant, non-redundant evidence.

   a. Grievant (with additional questions from Respondent and/or committee)

      1. Witnesses

      2. Non-testimonial evidence

   b. Respondent (with additional questions from Grievant and/or committee)

      1. Witnesses

      2. Non-testimonial evidence

IV. Opportunity for presentation of any rebuttal evidence.

   a. Grievant
b. Respondent

V. Presentation of additional evidence requested by committee.

VI. Summation of case

a. Grievant

b. Respondent

POLICY ON POSITIVE WORK AND LEARNING ENVIRONMENT

This policy is also available at http://www.umsystem.edu/ums/departments/gc/rules/personnel/330/080.shtml.

1. The University of Missouri is committed to providing a positive work and learning environment where all individuals are treated fairly and with respect, regardless of their status. Intimidation and harassment have no place in a university community. To honor the dignity and inherent worth of every individual -- student, employee, or applicant for employment or admission -- is a goal to which every member of the university community should aspire and to which officials of the University should direct attention and resources.

2. With respect to students, it is the University’s special responsibility to provide a positive climate in which students can learn. Chancellors are expected to provide educational programs and otherwise direct resources to creative and serious measures designed to improve interpersonal relationships, to help develop healthy attitudes toward different kinds of people, and to foster a climate in which students are treated as individuals rather than as members of a particular category of people.

3. With respect to employees, the strength we have as a university is directly related to maintaining a positive work environment throughout the institution. The University should provide a positive recruiting and work environment focused on the duties and skills of the work to be performed. It is the expectation of the University that all employees and potential employees will be treated on the basis of their contribution or potential contribution without regard to personal characteristics not related to competence, demonstrated ability, performance, or the advancement of the legitimate interests of the University. The General Officers are expected to provide training programs for supervisors to assist in achieving this objective.

4. With respect to violations of the policy, faculty, staff and students may utilize their respective grievance procedures approved by the Board of Curators. The approved grievance procedures are as follows: Grievance procedure in Section 370.010 for faculty; grievance procedure in Section 380.010 for staff; and grievance procedure in Section 390.010 for students, and each such procedure shall be deemed as amended to include grievances filed under this policy. This policy shall not be interpreted in such a manner as to violate the legal rights of religious organizations, or military organizations associated with the Armed Forces of the United States of America.

Finding Your Way Around UMKC

Finding Your Way Around UMKC

There is a driving map at http://www.umkc.edu/maps
and a campus map at http://www.umkc.edu/pdf/maps/locator.pdf

Courses

COURSES

- Accounting
- American Studies
- Anthropology
- Arabic
- Architectural Studies
- Art
- Art and Art History (Art)
- Art History
- Arts and Sciences
- Biology
- Biology
- Business Administration
- Business Decision Sciences
- Business Information Systems
- Business Management and Administration
- Cell
- Chemistry
- CHE Engineering
- Clarinet
- Classical and Ancient Studies
- Communication Studies
- Computer Science
- Conservation
- Counseling Psychology and Counselor Education
- Criminal Justice and Criminology
- Curriculum and Instruction
- Dance
- Decision Science and Operations Management
- Dental Hygiene
- Economics
- Education
- Electrical and Computer Engineering
- English
- Entrepreneurship
- Environmental Science
- Environmental Studies
- Eighteenth Century
- Finance
- Flute
- Foreign Language
- French
- Geography
- Geology
- German
- Greek
- Guitar
This course is the first half of the year long, required introductory course in American Studies. It is also open to all undergraduates. It focuses on works and authors, from the turn-of-the-century to the present, who are generally considered part of the American Studies canon and emphasizes understanding what America is/was according to these writers. The course is grounded in questions of citizenship, civic responsibility, ethics, character, progress and westward expansion. It will also look at the place of distinct disciplines (political science, English, anthropology, history, sociology, communication studies) in grappling with many of these questions. The course will introduce students to American Studies as an area of study and interdisciplinary scholarship as a methodological tool. Offered: Fall Semester.

3 hrs

AMEE-ST 251  INTRODUCTION TO AMERICAN STUDIES II

This course is the second half of the year long, required introductory course in American Studies. It is also open to all undergraduates. Students will be expected to locate themselves within American Studies as an area of study and will be pushed to think critically about the field by looking at the work of scholars in Cultural History, Media Studies, Regional Studies, Black Studies, Public History, Critical Legal Studies, Women's Studies and American Studies in an international context. Students will also be encouraged to place this scholarship in dialogue with that from the first semester in order to look at the boundaries of a field that is constantly changing. Prerequisite: A&S 250 Offered: Winter Semester.

3 hrs
AMER-ST 300 CD  AMERICAN SOCIAL FILM: SILVER SCREEN AND THE AMERICAN DREAM
This course will combine American social history and American film history. Using Hollywood entertainment films, the course will look at Hollywood as an indicator of social, political and economic conditions in the United States from the early 1900s to the late 1950s. The main topics are war and the threat of war, poverty and affluence, racial tensions, censorship, and political zealotry. A paper is required and a social history textbook, a film history textbook, a play by Arthur Miller, an a collection of articles constitute core readings. This course is offered as a cluster with COMM-ST 402CD and ENGLISH 300CD.

3 hrs

AMER-ST 301  AMERICAN STUDIES: THEMES FROM THE AMERICAN POPULAR ARTS
This course is a modified independent study course. Students are exposed to some of America’s best-known literature, films and music. Instructional audio tapes and traditional literature about American Culture show the relevance of examples of popular art to broader themes. Prerequisites: Concurrent enrollment in AMER-ST 302P and AMER-ST 303PW. Offered: On demand.

4 hrs

AMER-ST 302  SURVEY OF AMERICAN STUDIES
This course is a modified independent study course. Students are exposed to some of America’s best-known literature, films and music. Instructional audio tapes and traditional literature about American Culture show the relevance of examples of popular art to broader themes. Prerequisites: Concurrent enrollment in AMER-ST 302P and AMER-ST 303PW. Offered: On demand.

4 hrs

AMER-ST 303 PW  METHODS & PROBLEMS IN AMERICAN STUDIES
This course examines four topics that are important in American culture; each topic is approached from a different methodological perspective. The topics (problems) are related to cultural resources in the Kansas City area (such as a museum exhibit or a library research collection) and may change from semester to semester. Methods of problem solving are determined by the topic; however, students should expect to participate in oral history, interpretation of material culture, and traditional archival research and document analysis. Prerequisite: Concurrent enrollment in AMER-ST 302P. Offered: On demand.

4 hrs

AMER-ST 303 WI  METHODS & PROBLEMS IN AMERICAN STUDIES
This course examines four topics that are important in American culture; each topic is approached from a different methodological perspective. The topics (problems) are related to cultural resources in the Kansas City area and may change from semester to semester. Methods of problem solving are determined by the topic; however, students should expect to participate in oral history, interpretation of material culture, and traditional archival research and document analysis.

4 hrs

AMER-ST 340  SEMINAR: CRITICAL ISSUES IN AMERICAN CULTURE
An interdisciplinary seminar which will examine various cultural topics relevant to understanding contemporary issues in American society. Students will write individual research papers as well as offer critiques of each other’s work. Prerequisites: None. Offered: Every Fall semester.

3 hrs

AMER-ST 340 P  AMERICAN MATERIAL CULTURE: THE 20TH CENTURY
This course will focus on the material culture of modern and post-modern America. This is an area of inquiry particularly well-suited to the examination of material culture resources. Students will be required to write a term paper or do a material culture project. Offered: Fall

4 hrs

AMER-ST 341  AMERICAN MATERIAL CULTURE: OBJECTS AND IMAGES
This course will examine American cultural and social history from earliest times to the present, with a special emphasis on the ways artifacts and visual images can provide information and insight about the American experience. Offered: Fall

4 hrs

AMER-ST 341 P  AMERICAN MATERIAL CULTURE: OBJECTS AND IMAGES
This course will examine American cultural and social history from earliest times to present, with a special emphasis on the ways artifacts and visual images can provide information and insight about the American experience.

4 hrs

AMER-ST 342  AMERICAN MATERIAL CULTURE: MUSEUMS
This course will focus on local institutions that use material culture in their presentation of history and the American experience. Offered: Fall

4 hrs

AMER-ST 342 P  AMERICAN MATERIAL CULTURE: MUSEUMS
This course will focus on local institutions that use material culture in their presentation of history and the American experience.

4 hrs

AMER-ST 375  CENSORSHIP AND POPULAR CULTURE IN AMERICA
The First Amendment to the Constitution states that "Congress shall make no law ... abridging the freedom of speech or the press." The American experience, however, is that controversial books, radio and television programs, motion pictures, and, most recently, the Internet have been subjected to various types of censorship. This course will study the censorship of popular culture in America.

3 hrs

AMER-ST 380  DECADE OF DISSENT: THE 1960S
The social movements and conflicts that developed during the 1960s continue to define American culture in the 1990s. Questions of racial and gender equity, a greater willingness to challenge authority, concern about the environment, and a new openness about issues of sexuality all developed during the Sixties and remain as arenas of debate today. This course will examine the origins, contexts, and major themes of these social and cultural movements.

3 hrs
AMER-ST 400  
**Special Studies**

Pertinent courses from academic units throughout campus may be cross-listed with this course and applied to the major's requirements in American Studies. Prerequisite: None. Offered: Fall, Winter, Summer.

1-3 hrs

AMER-ST 400 A  
**Special Studies**

1-3 hrs

AMER-ST 400 B  
**Special Studies**

1-3 hrs

AMER-ST 400 CW  
**C: Introduction to Women's Studies**

What does it mean to grow up a female in America? How does being female influence the body, the mind, identity? This course is an interdisciplinary exploration of the issues that have shaped the lives of American women throughout the life cycle and across the timeline. This course examines the role that culture and society have played in shaping and defining what it means to be an American girl and woman. This course is cross-listed as ANTHRO 300CL, ANTHRO 5580CL, SOCIOL 303CW, and SOCIOL 5580CL.

3 hrs

AMER-ST 400 J  
**Special Studies**

1-3 hrs

AMER-ST 400 L  
**Special Studies**

1-3 hrs

AMER-ST 400 M  
**Special Topics**

1-3 hrs

AMER-ST 400 P  
**Special Studies**

1-3 hrs

AMER-ST 410P  
**The American Conception of Evil: Historical and Cultural Contexts**

This interdisciplinary course may focus on time periods in American history where the concept of evil has played a crucial role in determining public attitudes and policy, as well as the Western European roots of those attitudes. The course may focus on several broad time periods and topics: Western Europe before Columbus and during the initial years of contact between Europeans and Native Americans; Puritan New England, including the Salem witch trials; indentured servitude and slavery among Africans and other racial minorities; the Progressive Era; World War II, especially the experiences of American liberators of the concentration camps, the Japanese American internment experience, and the decision to use the atomic bomb; and Post WWII, especially the Cold War, the Vietnam War, 9/11, and contemporary hate groups.

3 hrs

AMER-ST 411P  
**The American Conception of Evil: Readings in Primary Sources**

This interdisciplinary course is a companion to AMER-ST 410P and may focus on understanding documents from the listed time periods in light of their original contexts, as well as developing an understanding of the roots of contemporary definitions of evil. Selections may include Puritan captivity narratives, diary entries, sermons, fiction, poetry, oral histories, WPA interviews with former slaves, films, television shows, and other appropriate materials.

3 hrs

AMER-ST 430  
**American Studies Internship**

Internship opportunities for advanced students involved in community and campus activities. Students must receive approval of the Director or Assistant director of American Studies prior to enrollment. No more than 6 credit hours can be taken. Prerequisites: None. Offered: Fall, Winter, Summer.

1-6 hrs

AMER-ST 440 WI  
**Senior Seminar**

Students enrolling in this course will produce an interdisciplinary research paper under the direction of the instructor in cooperation with other American Studies faculty and peer review with other American Studies students. Prerequisite: AMER-ST 400 Offered: Fall/Winter/Summer.

3 hrs

**Anthropology**

ANTHRO 103  
**Introduction to Cultural Anthropology**

An introduction to culture and the basic concepts of anthropology. Topics include kinship, language, and cultural change. Also offered as SOCIOL 103. Offered: Fall/Winter.
**ANTHRO 202 R  SOCIAL ORGANIZATION**
This course focuses on the principles of social organization that undergird all human societies: social groups; age and gender differences; the institutions of family, economy, religion and polity; power; community and other units of residence; and social differentiation based on such factors as wealth and/or prestige. The focus of analysis is on the maintenance of social order, social change, and integration of society. Crosslisted with SOCIOL 202R. Prerequisite: SOCIOL 101. Offered: Every semester.

**ANTHRO 300 CL  CLUSTER COURSE: INTRODUCTION TO WOMEN'S STUDIES**

**ANTHRO 300 R  SPECIAL TOPICS IN ANTHROPOLOGY**
Each time this course is offered, a different area of anthropology, to be announced, will be examined. Also offered as SOCIOL 300R.

**ANTHRO 300 RV  SPECIAL TOPICS IN ANTHROPOLOGY**

**ANTHRO 302  SOCIAL STRATIFICATION**
The distribution of power, privileges and prestige are examined in a historical and comparative perspective. The process whereby distribution systems develop, become institutionalized, and become transformed are analyzed. Also offered as SOCIOL 302. Offered: Fall

**ANTHRO 314  ANTHROPOLOGY OF GENDER**
This class explores theories of the social construction of gender in cross-cultural contexts. It will also explore global issues of local and international politics, the economy, work and education as these relate to gender.

**ANTHRO 322  RACE AND ETHNIC RELATIONS**
The nature, origin and dynamics of ethnic and race relations in the U. S. and other societies. Specific attention will be given to the historical and contemporary contexts of prejudice, discrimination and confrontation. Also offered as Soc 322. Offered: Fall/Winter.

**ANTHRO 324  DIVERSITY AND YOU**
This course will examine diversity from the perspectives of race, ethnicity, class and gender. Emphasis will be placed on the impact of racism, classism and sexism on interpersonal relationships and strategies to encourage diversity in schools, neighborhoods, and the work place. Students may also enroll in "directed research" in conjunction with his course.

**ANTHRO 325  THE IMAGERY OF THE AMERICAN INDIAN IN FILM**
This course will trace the imagery of the American Indian used by film makers through the years and how this has played a role in reinforcing certain inaccurate perceptions of American Indian cultural, social, and economic life. The course examines the sociological implications created by persistently showing misrepresented images of American Indians. The goal is to measure and compare the reality of American Indian life (values, traditions, and beliefs) with the images created by film makers from the early years of the 20th century to the present. Also cross listed as SOCIOL 325.

**ANTHRO 327  US GOVERNMENT’S INDIAN POLICIES: PRACTICES OF A COLONIZING NATION**
This class will convey information about the implementation of US Government policies, from treaty making, establishing reservations, removing, confronting tribes militarily, and abolishing reservations through allotment resulted in consequences detrimental to tribal welfare. The colonization process created ramifications and consequences that Indian people contend with to this day. This class will provide a historical overview of the consequences associated with political, social, and economic processes that divested Indian people of control over their lives and land they originally lived on. Also cross listed as SOCIOL 323.

**ANTHRO 328  ANTHROPOLOGY OF THE BODY**
The Anthropology of the Body is an interdisciplinary and comparative approach to the study of the body as the subject and object of social processes. Anthropological approaches to ritual, performance, reproduction, and healing will provide a framework for classical as well as contemporary explorations of bodily representation and experiences across a variety of cultural contexts. Prerequisite: Introduction to Cultural Anthropology

**ANTHRO 329  THE IMAGERY OF THE AMERICAN INDIAN IN FILM**
This course will trace the imagery of the American Indian used by film makers through the years and how this has played a role in reinforcing certain inaccurate perceptions of American Indian cultural, social, and economic life. The course examines the sociological implications created by persistently showing misrepresented images of American Indians. The goal is to measure and compare the reality of American Indian life (values, traditions, and beliefs) with the images created by film makers from the early years of the 20th century to the present. Also cross listed as SOCIOL 325

**ANTHRO 331  URBAN ANTHROPOLOGY**
A course designed to apply anthropological methods to the study of various urban environments. The approach to the subject is comparative, seeking to spell out those features of the urban setting which vary from culture to culture as well as those which are common to all. Also offered as SOCIOL 331.
ANTHRO 339  AMERICAN INDIAN LEADERS: PAST AND PRESENT
This course will examine the definition of leadership as it relates to American Indian issues. Consideration will be given to the nuances of leadership by examining the social, cultural, economic, and political situations that gave cause for particular individuals to assume roles of leadership. The course will compare and contrast the notions of leadership within American Indian ranks with those practiced by non-indian leaders. It will trace the evolving nature of leadership within tribal nations and American Indian communities from past to present, as well as looking at indian leadership roles in time of war and peace. Lives of the major characters of American Indian historical record will be reviewed, such as Geronimo, Crazy horse, Sitting Bull, Osceola, Tecumseh, Pontiac, Black Hawk, Quannah Parker, and Captain Jack. Also cross listed as SOCIOL 326
1 hr

ANTHRO 341R  THE ANTHROPOLOGY OF ECONOMIC INSTITUTIONS
Examines in a comparative perspective the social, cultural and political framework of economic activities. Emphasis is placed on socioeconomic systems and the contradictions they generate. Crosslisted with SOCIOL 341R. Offered: Annually.
3 hrs

ANTHRO 343  SOCIETIES AND CULTURES OF LATIN AMERICA
A survey of emerging cultures and societies in Latin America; pre-history and geography; the Mayan, the Aztec and Incan civilizations; contemporary Indian, peasant and urban subcultures; the impact of forces such as migration, urbanization, peasant mobilization, and agrarian reform. Also offered as SOCIOL 343.
3 hrs

ANTHRO 346  CULTURES OF THE AFRICAN DIASPORA
This course will explore the cultures of African people and their descendents who settled in Europe, the Caribbean or the Americas due primarily to the impact of the Trans-Atlantic trade in human beings. The focus will be comparative, with emphasis on cultural adaptation, kinship systems, music and religion.
3 hrs

ANTHRO 347  THE AMERICAN INDIAN IMAGE: STEREOTYPE VS. REALITY
This class will take a historical, sociological, and cultural approach to review how society at large views American Indians. The course will trace the origin and continued use of American Indian stereotyped views, and assess the sociological and psychological complications that result when judging indians solely on stereotyped imagery. The course will review the historical content of American Indian life as portrayed in early plays, films, and newspaper accounts and compare these stereotyped images with the reality of American Indian life by providing a depiction of a series of historical events that will offer a more balanced and accurate consideration for American Indian life past and present. Also cross listed as SOCIOL 324.
1 hr

ANTHRO 347  ANTHROPOLOGY OF RELIGION
This course explores the ways anthropologist have gone about studying religion from the opening decades of the 20th century to present. The course introduces students to the diversity of human religious expression and experience through anthropological literature and to the diversity of anthropological expression especially as it has been revealed in social scientific studies of religious life. The course is designed to generate a critical dialogue about the special role that religion has played in the ongoing anthropological engagement with "other" societies and cultures over time.
3 hrs

ANTHRO 348  LATIN AMERICAN IMMIGRANTS & REFUGEES IN THE U.S.
The course is an introduction to the study of the culture and societies of U.S. citizens and immigrants of Latin American heritage living in the U.S. The course emphasizes recent anthropological as well as historical and cultural studies. Topics covered: ethnohistory, kinship, labor, intergenerational relations, gender transnationalism and immigration and cultural diffusion over successive generations.
3 hrs

ANTHRO 352  MULTICULTURAL WOMEN'S HISTORY IN THE U.S.
This course offers an introduction to the histories of women in the U.S. from the 17th to the beginning of the 20th century. We will study colonial and US women of Native, Latino, European, African, and Asian descent, their contact with women (and men) of other ethnic groups, the political, economic, and legal changes affecting their lives, and the images they created of themselves and each other. Offered: Every Fall Semester
1 hr

ANTHRO 353  WOMEN, CLASS, AND ETHNICITY IN THE U.S.
This course focuses on contemporary women's lives and issues such as welfare and immigration, stereotypical imagery, and the pressure to put ethnic and/or class interests before gender concerns. We will study women of Native, African, European, Latin, Asian, and heterogeneous descent and the ethnic, economic, and legal forces shaping their lives. Offered: Every Fall
1 hr

ANTHRO 354  WOMEN’S LIVES IN THE GLOBAL ECONOMY
This course explores the realities of women's lives and the work that women contribute to all societies. Using an anthropological approach, we will explore women's productive work in gathering, horticulture, agriculture, and industrialization, women's reproductive work, as well as their work of status enhancement and caring. Highlighting the changes wrought by colonialism, we will also explore women's work, both voluntary and involuntary, in the global economy. Offered: Every Winter
1 hr

ANTHRO 355  THE UNITED NATIONS’ WOMEN’S CONFERENCES
This class studies the United Nations' Women's Conferences in Mexico City (1975), Copenhagen (1980), Nairobi (1985), Beijing (1995), and Beijing +5 (2000), their themes, participants, documents, solutions, and consequences. Special attention will be paid to women's human rights. Offered: Every Winter
1 hr

ANTHRO 356  CROSS-CULTURAL GENDER CONCEPTIONS
This class surveys the varieties of gender definitions and roles in historical and contemporary human cultures in their association to stratified or equitable access to economic, political, and ideological resources. Topics include the definitions and varieties of human sexes and of human genders, and the multiple ways in which people create sexual and gender intersections and variations. Offered: Every Winter
1 hr

ANTHRO 374  ANTHROPOLOGY OF CHILDHOOD
This course explores how children’s lives are shaped by cultural, economic, and political forces and relations. Drawing upon a range of case studies and disciplinary perspectives it will consider how and why children emerge as sites of contestation and debate, and it will examine the various ways in which the category and experience of childhood unfold in different socio-historical contexts. The main objective of the course is to better understand the social construction of childhood and use the study of childhood as a privileged window for exploring the articulation of cultural, economic and political relations within the context of contemporary global society.

3 hrs

ANTHRO 414 Feminist Theories
This class introduces the major feminist theories and their primary authors over the last 200 years. The class takes both a historical view (beginning with two millennia of male-centered theories about women) and a conceptual approach (theories are grouped by common ground) and familiarizes the student with both the historical processes that necessitate feminist theories as well as with the breadth and depth of the historically and currently available scholarship. Prerequisite: Introduction to Women's Studies Offered: Winter Semester

3 hrs

ANTHRO 441 Developing Countries
Focuses on issues of economic development, social stratification, political institutions, and political mobilization in societies where colonialism provided the context for their long-term disadvantages in the international economic order. Specific attention is paid to the intersection of the international components that define the options and limits for societal development (e.g., market shifts, international institutions and contracts, foreign policies, and migration) and the distinct social, political and cultural implications of these factors for developing societies. Crosslisted with ANTHRO or SOCIOL 441.

3 hrs

ARABIC

ARABIC 110 Elementary Arabic I
Fundamentals of the language, essentials of conversation, grammar, practical vocabulary, useful phrases, and the ability to understand, read and write simple classical Arabic. Fall.

5 hrs

ARABIC 120 Elementary Arabic II
Continuation of ARABIC 110. Winter. Prerequisite(s): ARABIC 110 or equivalent.

5 hrs

ARABIC 211 Second Year Arabic I
Further development of comprehension and communicative skills in the language. Readings of moderate difficulty and grammar review. Practice in writing. The goal is attainment of intermediate proficiency in the language. Prerequisite: ARABIC 120. Fall.

3 hrs

ARABIC 221 Second Year Arabic II
Continuation of ARABIC 211. Winter.

3 hrs

ARABIC 280 Special Intermediate Arabic Topics I
Instruction of Arabic on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed.

2-4 hrs

ARABIC 290 Special Intermediate Arabic Topics II
Continuation of ARABIC 280. May not be repeated for credit. As needed.

2-4 hrs

ARCHITECTURAL STUDIES ART

ART 100 Topical Studies In Art History
This course consists of a series of lectures on selected subjects of European, American and Oriental art. No prerequisite. Does not meet baccalaureate requirements in fine arts. Does not meet departmental requirements for art or art history majors.

1-3 hrs

ART 101 Topical Studies In Studio Art
(A,B,C,D) This course provides students with an opportunity to explore offerings in a variety of fine arts media. No prerequisite. Does not meet baccalaureate requirements in the fine arts. Different sections of the course may be repeated.

1-3 hrs

ART 101 B Topical Studies In Studio Art

1-3 hrs

ART 101 G Topical Studies In Studio Art

1-3 hrs

ART 101 P Topical Studies

3 hrs
ART 105  INTRODUCTION TO PHOTOGRAPHY
An introduction to the general practice of photography. This course is intended for non-majors. It does not serve as a prerequisite for advanced art photography courses. The course centers on the basic technical and aesthetic aspects of the medium. A fully adjustable 35mm camera is required. Offered: Every semester

3 hrs

ART 110  INTRODUCTION TO THE VISUAL ARTS
An introduction to the study of art—especially architecture, sculpture, painting and the graphic arts. Consideration given to purpose and patronage, the visual elements, design and techniques. The meaning of style and expression is studied in the context of the historical background of chief periods of Western civilization. This course meets the college fine arts requirement, but does not count towards the art history requirement for departmental majors. Every semester.

3 hrs

ART 112  FOUNDATION DRAWING
Drawing on the introductory level. Every semester.

3 hrs

ART 114  INTRODUCTION TO COMPUTER MULTIMEDIA
General techniques and practical application for computer multimedia. This is a course intended for non-majors. It does not serve as a prerequisite for advanced art multimedia courses. Lectures, demonstrations, readings, discussions and application sessions. Fulfills the College of Arts and Sciences computer competency requirement. Offered: Fall and Winter.

3 hrs

ART 116  COMPUTER ANIMATION
General techniques and practical application for computer animation. This course is intended for both studio majors and non-majors. It does not serve as a prerequisite for any advanced electronic art courses. Lectures, demonstrations, readings, discussions and application sessions. Offered: Summer.

3 hrs

ART 121  FOUNDATION DESIGN—TWO DIMENSIONAL
The principles of visual thinking with emphasis on color theory and perception of form and space. Prerequisite: ART 112; concurrent enrollment with ART 112 is with approval. Every semester.

3 hrs

ART 131  FOUNDATION DESIGN—THREE DIMENSIONAL
Introductory study in three-dimensional formal principles with emphasis on the aesthetic properties. Prerequisite: ART 112. Every semester.

3 hrs

ART 203  INTRODUCTION TO TYPOGRAPHY
The format and applied aspects of typography are studied in the context of the design process, involving basic concepts of copyfitting, specification of type, layout, and the use of computer assisted design software. Prerequisites: ART 112, ART 121, and ART 131.

3 hrs

ART 204  COMPUTER MULTIMEDIA I
Introductory level computer multimedia. This course is intended for studio majors. General techniques and practical application of animation, imaging, video, text and sound to multimedia. Lectures, demonstrations, readings, discussions and application sessions. Prerequisite: Studio major or permission of instructor. Offered: Fall and Winter.

3 hrs

ART 206  PHOTOGRAPHY I
An introduction to photography as a means of creative self-expression. The course centers on the technical and aesthetic aspects of the medium. Extensive darkroom work will be required. A fully adjustable 35mm camera is required. Prerequisites: Studio major or permission of instructor. Offered: Every semester.

3 hrs

ART 212  INTERMEDIATE DRAWING
Continuation of foundation drawing. Emphasis is on gaining technical facility with various drawing mediums and expanding conceptual approaches. Prerequisites: ART 112 Offered: Every Semester

3 hrs

ART 221  INTRODUCTORY PAINTING
Exploration of the visual language in paint. Emphasis on continuing color and design exploration. Prerequisites: ART 112, ART 121, ART 212. Every semester.

3 hrs

ART 224  INTRODUCTORY PRINTMAKING
An introduction to the process and technique of printmaking centering on metalplate printing. Prerequisites: ART 212,ART 221. Annually.

3 hrs

ART 231  INTRODUCTORY SCULPTURE
Introductory study of sculptural expression and technique in a variety of materials and processes. Prerequisite: ART 131. Every semester.

3 hrs

ART 235  DIGITAL IMAGING I
This is an introductory course to the computer as a creative tool for the visual artist. Images will be digitized, enhanced and altered. Practical and ethical issues regarding digital image processing are explored. Various input and output options will be discussed.
Interdisciplinary Studies/Cluster Course Offerings I

**ART 244 VISUAL TOOLS FOR THE COMPUTER**
Specific training in using software programs (such as Adobe Photoshop, Adobe Illustrator, Quark Express, etc.) for artists, architects, and graphic designers. Each section deals with a different program and thus the course may be repeated if the student signs up for a different section. Prerequisite: None.

1-3 hrs

**ART 245 DIGITAL APPLICATIONS**
This is an introductory class to software that has graphic and desktop applications. The course will deal principally with digital graphic software that is currently considered the industry standard. The class will also touch on other software that can have an impact on future computer applications pertaining to applied design. Through a variety of class projects/exercises, students will learn various software and how they interrelate. The class is open to all art students and general students. It will be a prerequisite for studio art students with a graphic design emphasis before entering advanced graphic design classes. (Course replaces visual tools, ART 244A, ART 244B, ART 244C which is a series of three one hour classes.) Offered: Fall

3 hrs

**ART 246 DIGITAL APPLICATIONS**
This is an introductory class to software that has graphic and desktop applications. The course will deal principally with digital graphic software that is currently considered the industry standard. The class will also touch on other software that can have an impact on future computer applications pertaining to applied design. Through a variety of class projects/exercises, students will learn various software and how they interrelate. The class is open to all art students and general students. It will be a prerequisite for studio art students with a graphic design emphasis before entering advanced graphic design classes. (Courses replaces visual tools, ART 244A, ART 244B, ART 244C, which is a series of three one hour classes). Offered: Fall

3 hrs

**ART 253 HISTORY OF THE DESIGNED ENVIRONMENT I, ANCIENT AND MEDIEVAL**
An overview of developments in architectural, urban, land and interior design which have shaped the physical environment of the Western world from prehistory through the period known as the "Romanesque." Emphasis will be given to relationships between institutions, values and needs of different societies and the architectural forms produced by those societies. Prerequisite: None.

3 hrs

**ART 254 HISTORY OF THE DESIGNED ENVIRONMENT II, LATE MEDIEVAL TO MODERN**
An overview of developments in architectural, urban, land and interior design which have had an impact on the physical environment of the Western World from the Gothic era to the beginning of the modern era. A central objective of the course is to gain an understanding of why these developments occurred and how the needs and aspirations of a given time were manifested in physical form. Prerequisite: None.

3 hrs

**ART 255 HISTORY OF THE DESIGNED ENVIRONMENT III, MODERN (1750 TO PRESENT)**
An overview of developments in architectural, urban, land and interior design which have shaped the physical environment of the Western world during the Modern period. Issues to be explored include renewed interest in archaeology during the eighteenth century, shifts in patronage, the impact of new industrial materials and techniques, demands for an array of new building types, and dioramas of expression throughout the modern era. Our concerns will broaden and become more global in scope when we examine the twentieth century. Prerequisite: None.

3 hrs

**ART 300 INTERDISCIPLINARY STUDIES/CLUSTER COURSE OFFERINGS I**

3 hrs

**ART 300 CA CLUSTER COURSE: IMAGES OF THE HUMAN BODY IN THE RENAISSANCE**
Focusing on Renaissance conceptions of the human body, this cluster treats the following topics as they are reflected in Renaissance literature, art, astrology, astronomy, biology, anatomy, medicine and politics: A) The dignity of the human body B) Microcosm and macrocosm C) Stranger manifestations: freaks and beasts D) The humors E) Disorders of the human body F) The body politic G) The human body as an object of study. On demand.

3 hrs

**ART 300 CD CC: THE AFRICAN DIASPORA IN THE ARTS AND CULTURE**
This new cluster course examines aspects of African culture in the Diaspora: Africa, the Caribbean and certain parts of South and North America. Attention will be on charms, painting, sculpture, secret scripts, textiles, as well as religions and spirituality. Understanding African Diaspora culture also involves an analysis of historical and sociological movements, the interpretation of written culture, and the effects of Africa’s response to colonialism. The transmission and transformation of African cultures will be addressed by a close investigation of visual and material culture, and the cosmological constructions of African peoples. Methodologies are from the Art History, Literature and Religious Studies. Restrictions: Sophomore or above.

3 hrs

**ART 300 CF CLUSTER COURSE: AFRICAN/AFRICAN AMERICAN WOMEN AND CREATIVITY**

3 hrs

**ART 300 CH CLUSTER COURSE: HEALING AND THE ARTS**

3 hrs

**ART 300 CM CLUSTER COURSE: BODY IMAGES IN MEDICINE AND THE ARTS**

3 hrs

**ART 300 CS CC: SIGHT AND SOUND—AN EXAMINATION OF PERCEPTUAL EXPERIENCE**
Faculty from at least two different departments (one of which must be a department in the division of humanities including history) may determine the topic and syllabus, subject to the approval of the director of Integrated Studies and the program's advisory committee in addition to the approval of the departments involved. This special topics course will satisfy the interdisciplinary course requirement for the B.A. Offered Fall/Winter.

3 hrs
ART 300 CW  
CC: WOMEN IN A MAN'S WORLD: GENDER, SEX & STATUS IN CLASSICAL ART

3 hrs

ART 301  
SURVEY OF WESTERN ART I
A survey of ancient and medieval Western art. The course will begin with the great civilizations of the Mediterranean basin and consider the changes wrought by the introduction of Christianity and Islam. Study of the medieval era will include Romanesque and Gothic architecture through the 15th century, but will not include the beginnings of panel painting nor of independent sculpture. This course meets the college fine arts requirement. Every semester.

3 hrs

ART 302  
SURVEY OF WESTERN ART II
A survey of late medieval, Renaissance and Baroque art in Europe. The course will start with the beginnings of panel painting, independent sculpture and the graphic arts in late medieval Europe, trace the coming of the Renaissance in architecture and the figurative arts, and conclude with the Baroque tradition. This course meets the college fine arts requirement. Every semester.

3 hrs

ART 303  
SURVEY OF WESTERN ART III
A survey of European and American art and architecture, beginning with the origins of the Romantic movement in the 18th century and concluding with contemporary work. This course meets the college Fine Arts requirement. Every semester.

3 hrs

ART 305  
PHOTOGRAPHY II
An advanced course in which students develop a deeper understanding of personal interests, sensibilities and goals as they relate to producing and appreciating creative photography. Prerequisite: ART 206. Every semester.

3 hrs

ART 308  
LITHOGRAPHY
Study of stone lithographic process. Prerequisite: ART 224. Winter.

3 hrs

ART 309  
INTAGLIO
Advanced study of intaglio printing processes. Prerequisite: ART 224. Annually.

3 hrs

ART 310  
COMPUTER MULTIMEDIA II
Continuation of ART 204, Intermediate level computer multimedia. This course is intended for studio majors. General techniques and practical application sessions. Prerequisites: ART 204 and specific permission of instructor. Offered: Fall and Winter.

3 hrs

ART 311  
PAINTING I
Painting in oil or acrylic on the intermediate level. Emphasis on continuing color and design exploration. Prerequisite: ART 212, ART 221. Every semester.

3 hrs

ART 312  
FIGURE DRAWING I
A study of the structure of the human figure with emphasis on the dynamics of figure movement. Prerequisite: ART 212. Annually.

3 hrs

ART 313  
GRAPHIC DESIGN I
Intermediate study of graphic design methodology and techniques, stressing a visual approach to problem solving in design, image making techniques, materials, and production processes standard to the industry. Prerequisites: ART 203, ART 206, ART 212, ART 224 or permission of the instructor.

3 hrs

ART 314  
GRAPHIC DESIGN PRODUCTION
Study of the Mechanical procedures and techniques used for the realization of graphic design production. Prerequisite: Instructor's permission. Winter.*

3 hrs

ART 315  
ART OF AFRICAN, OCEANIC, AND NEW WORLD CULTURES
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.

3 hrs

ART 319  
ASIAN ART
The survey will emphasize the philosophical and cultural context of the arts of India, Southeast Asia, China, Korea and Japan. The course will stress the elements that give an underlying unity to the arts as well as those qualities which distinguish the art of each country as unique. Each Fall.

3 hrs

ART 322  
ADVANCED DRAWING
Further development of technique and content. Emphasis is on forming and clarifying a personal voice. Prerequisite: ART 212 Offered: Annually
3 hrs

**ART 335 A**  
**DIGITAL IMAGING II**
This class will strengthen the competence and knowledge of digital imaging techniques. Research, conceptual and verbal abilities within digital image making will be explored. Students will apply new techniques to their personal interests in the studio arts. Prerequisite: Digital Imaging I or permission of instructor.

3 hrs

**ART 353**  
**THE DESIGN AND FORM OF KANSAS CITY**
An overview of the historical development of Kansas City with a particular emphasis on the architecture, and the factors influencing what was built, when and where. Prerequisite: Junior standing and a previous course in the history of art or architecture, or permission of the instructor. May not be taken for graduate credit. Offered: Fall

3 hrs

**ART 403**  
**ADVANCED TYPOGRAPHY**
A continuation of ART 203. Introduction to Typography, this course looks at more sophisticated typographic use, using advanced layout and design principles, based on both historical and contemporary typographic design practice. In addition, typographic design theory will be studied as a basis for practice and experimentation. The influence of the computer in contemporary typographic design will be studied through lecture and practice. Typography in motion-and time-based media such as web-sites and multimedia presentations will be examined in how these forms of typography differ from 2-dimensional type usage. Prerequisite: ART 413 Offered: On demand

3 hrs

**ART 404**  
**COMPUTER MULTIMEDIA III**
Continuation of ART 310. Advanced level computer multimedia. This course is intended for studio majors. Lectures, demonstrations, readings, discussions and application sessions. Prerequisites: ART 310 and specific permission of instructor. Offered: Fall and Winter.

3 hrs

**ART 405**  
**ART IN SECONDARY SCHOOL**
An introduction to the special problems, procedures and materials associated with the art curriculum in the public schools. This course meets certification requirements in "Special Methods of Teaching Field." Prerequisites: The equivalent of senior standing in art plus permission of the instructor. Winter semester only.

3 hrs

**ART 406**  
**ADVANCED PROBLEMS IN PHOTOGRAPHY**
This course provides students a forum in which the issues and techniques of contemporary photography can be investigated on a rather esoteric level. The format of the course allows for a mutual decision by the instructor and students, dictating which investigations will be pursued during that particular semester. Possible areas of investigation would include, but are not limited to, color photographic theory and practice, non-silver photographic techniques (e.g. Kwikprint, gum bichromate, cyanotype, Van Dyke Brown, etc.), hand coloring techniques, photo-collage, etc. Prerequisite: ART 305, or permission of instructor.

3 hrs

**ART 411**  
**PAINTING II: OIL/ACRYLIC**
Painting on the advanced level with individual selection of medium and technique. Prerequisite: ART 311. Every semester.

3 hrs

**ART 412**  
**FIGURE DRAWING II**
A continuation of Figure Drawing I, ART 312. Drawing on the advanced level with study of the figure in environmental context. Prerequisite: ART 312 or ART 322. Annually.

3 hrs

**ART 413**  
**GRAPHIC DESIGN II**
Advanced study in graphic design methodology and techniques, involving more intense project problem solving. Projects include visual communication strategies of a more advanced nature including newsletter, brochures, annual report, book, magazine and journalism spreads. Prerequisite: ART 313.

3 hrs

**ART 415 WI**  
**ROMANTICISM**
Art of the Romantic Era, principally in Europe, from c. 1790 to c. 1860. Consideration is given to the problems of patronage, criticism and stylistic influences. Prerequisite: ART 303 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

3 hrs

**ART 416 WI**  
**LATER 19TH CENTURY PAINTING AND SCULPTURE**
From Realism through Post-Impressionism. A study of art, principally in Europe, from c. 1850 to c. 1905, with consideration given to factors influencing stylistic changes during this period. May be taken independently of ART 415. Prerequisite: ART 303 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Fall, odd years.

3 hrs

**ART 421**  
**PAINTING III: OIL/ACRYLIC**
Continuation of ART 411. Prerequisite: ART 411. Every semester.

3 hrs

**ART 422**  
**ADVANCED DRAWING II**
Continuation of ART 322. Prerequisite: ART 312 or 322. Annually.

3 hrs

**ART 423 WI**  
**DESIGN SEMINAR**
Critical issues in design, design theory and design history/personalities (specific individuals and movements critical to contemporary design practice) from selected readings, slide presentations and invited speakers. A research paper/presentation on a topic evolving from the topics discussed will be required. The course will also address resume and portfolio preparation for design majors. Prerequisites: ART 313, ART 413 or instructor's permission. Offered: On Demand.

ART 424  EARLY 20TH CENTURY EUROPEAN PAINTING AND SCULPTURE
A study of European painting and sculpture from c. 1900 to c. 1940. Prerequisite: ART 303 or permission of instructor. Winter, odd years.

ART 426  TWENTIETH CENTURY PAINTING
A study of major artists and stylistic changes in painting, beginning c. 1905. Consideration also given to the role of media and to drawings and prints during this period. Prerequisite: ART 303 or permission of instructor. Offered: On demand.

ART 427  TWENTIETH CENTURY SCULPTURE
A study of major artists and stylistic changes in sculpture, beginning c. 1905. Consideration also given to the role of new materials and techniques. Prerequisite: ART 318. On demand.*

ART 428  AMERICAN ARCHITECTURE AND URBANISM
A survey of architecture and urbanism in the United States. We begin in the early years of the republic, but focus on the period from the Civil War to the present. Topics include the planning and development of major American cities, the creation of the skyscraper as a new commercial type, the evolution and design of the suburb, the emergence of the United States as the center of modernism following World War II and its displacement from that center with the pluralistic trends of the last three decades. Prerequisites: ART 254, ART 303 or instructor's permission. Offered: Fall.

ART 429  AMERICAN PAINTING AND SCULPTURE
A study of the history of painting and sculpture, and other figurative arts, from earliest colonial times to the present. Emphasis will be placed on those artists who illuminate the major achievements in American art, and also the ongoing role played by European training and tradition. Prerequisite: ART 303 or permission of the instructor and successful completion of the WEPT (effective FS93). Offered: Fall, even years.

ART 430  GRAPHIC DESIGN III
Advanced application of graphic design techniques to complex design problems. The course will stress individualized assignments and portfolio preparation. Prerequisite: ART 413 which may be taken concurrently. Offered: WS96

ART 436 P  INTRODUCTION TO GRAPHIC DESIGN AND DESKTOP PUBLISHING
Students will gain a basic understanding of two dimensional design, typography, and graphic design. Introductory skills in industry standard computer design software will be offered. Issues and techniques related to the field of graphic design will be discussed. Restrictions: Does not count towards Studio Art majors requirements

ART 437 P  INTRODUCTION TO DIGITAL IMAGING AND COMPUTER MULTIMEDIA
Students will acquire a basic understanding of lens- based image creation using still and video cameras. Introductory skills in industry standard multimedia software will be used. Issues and techniques related to the field of electronic media will be discussed. Restrictions: Does not count towards Studio Art majors requirements

ART 438 P  FIRST FRIDAYS: GUIDED SELF-STUDY
Students will be exposed to contemporary issues in art through readings discussions, and audio-visual presentations. Various types of art will be viewed and experienced in professional art venues (galleries, museums, alternative spaces). Independent visual and written projects related to lectures and visits will be required. Restrictions: Does not count towards Studio Art requirements. Concurrent enrollment in ART 436P or ART 437P is required

ART 440 WI  FRENCH ART: RENAISSANCE AND BAROQUE
A history of French art from the time of Louis XII through the Age of Louis XIV, with emphasis on painting and architecture. Prerequisite: ART 302 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

ART 441 WI  NORTHERN BAROQUE: THE AGE OF RUBENS, REMBRANDT AND WEEN
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.

ART 442  ART OF SUB-SAHARAN AFRICA
This course presents an in-depth study of African Art from the sub-Sahara Region. The first half of the course will explore the major art-producing archaeological cultures of Mali, Nigeria, Chad, and Zimbabwe. The second half will concentrate on the ethnographic present and focuses on the major art-producing cultures of West, Central and Southern Africa. Prerequisite: ART 315 or instructor's permission. Offered: On demand.

ART 443  PRE-COLUMBIAN ART
The course will discuss 2500 years of the arts of ancient Mexico, Guatemala and Peru. Included is the rise of such important cultures as the Olmec, Maya, Aztec and Inca. Equal emphasis will be placed on the development of elaborate ceremonial centers such as Monte Alban and the Teotihuacan as well as the ceramic tradition of the West and East coasts of Mexico and the ceramic textile traditions of pre-Columbian Perú. Prerequisite: ART 315 or permission of instructor. Offered: On demand.

3 hrs

ART 445 NORTHERN EUROPEAN ART: 15TH AND 16TH CENTURIES
A study of panel painting, sculpture and manuscript illumination in Flanders, France, Germany, and Spain from the Hundred Years' War through the Reformation. Special emphasis will be placed upon the stylistic and iconographic innovations of such major Northern artists as Claus Sluter, Jan van Eyck, Jerome Bosch, Pieter Bruegel, Jean Fouquet and Albrecht Durer. Artistic developments will be presented within the context of changing economic, political, religious and social institutions of the period. Prerequisite: ART 302 or permission of instructor. Offered: On demand.

3 hrs

ART 447 WI ITALIAN BAROQUE: THE AGE OF CARAVAGGIO, BERNINI AND BORROMINI
Painting, sculpture and architecture in Italy from the creation of the Baroque style in the late 16th century to the beginnings of the Barochetto era. Prerequisite: ART 302 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

3 hrs

ART 448 WI SPANISH ART: EL GRECO TO GOYA
A history of Spanish art from the later fifteenth century to the Napoleonic invasion. Prerequisite: ART 302 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

3 hrs

ART 449 ART AND ARCHITECTURE IN THE AGE OF ENLIGHTENMENT
Painting, sculpture and architecture in France, Italy, England, Spain and Central Europe during the 18th-century. Prerequisite: ART 302 or permission of instructor.

3 hrs

ART 450 15TH CENTURY ITALIAN ART AND ARCHITECTURE
An examination of the visual arts from the International Style and the Early Renaissance to the beginnings of the High Renaissance. Problems of patronage, artistic theory, the Antique, the role of art in humanist circles, and the effect of religious, political and economic developments on the arts will also be discussed. Prerequisite: ART 110 or ART 302 or permission of instructor.

3 hrs

ART 452 GREEK ART AND ARCHITECTURE
A survey of Greek sculpture, vase painting, and architecture from the third millennium to the first-century B.C. Emphasis will be placed on the relationship of Minoan and Helladic aesthetics, and the connections between late Helladic and Geometric forms, and the nature and development of the classical and baroque styles. Prerequisite: ART110 or ART 301 or permission.

3 hrs

ART 453 ROMAN ART AND ARCHITECTURE
The subjects to be included are: wall painting, portraiture, sarcophagi, historical reliefs, and secular and religious architecture. Emphasis will be placed on material from the Late Republic to The Severan period. Prerequisite: ART 301 or permission of instructor.

3 hrs

ART 454 16TH CENTURY ITALIAN ART AND ARCHITECTURE
The visual arts in Italy from the beginnings of the High Renaissance in the late 15th century through the Late Renaissance and the developing phenomenon of Mannerism. The effect of religious, political and economic developments will be discussed as well as problems of patronage, artistic theory and the role of art in humanist circles. Prerequisite: ART 110 or ART 302 or permission of instructor.

3 hrs

ART 455 HISTORY OF PHOTOGRAPHY
A survey of the history of photography as a pictorial art; technical developments and the interaction of photography with other arts will be included. Prerequisite: ART 303 or permission of instructor. Offered: On demand.

3 hrs

ART 456 THE PAINTING AND SCULPTURE OF CHINA
Jade sculptures of the 14th-century B.C., the terra cotta army of the first emperor of China, Buddhist and secular sculptures from the Han through the Sung dynasties will be covered. The study of Chinese painting will include important new discoveries of paintings on silk dating from the third century B.C.; figure and landscape scrolls, and wall paintings from the fourth through 20th centuries A.D. The masterpieces in the Nelson-Atkins Museum will be examined in detail.

3 hrs

ART 457 THE PAINTING AND SCULPTURE OF JAPAN
Clay sculptures from 3,000 B.C., the haniwa sculptures from the fourth century A.D., and Buddhist sculpture from the sixth through the 14th centuries as well as the rich tradition of portrait sculptures will be the focus of the first half of the course. The study of paintings will begin with mural paintings preserved in tombs from the fourth century A.D. Murals in Buddhist temples; painted screen and sliding panels from temple buildings, castles and palaces; Zen painting; paintings and prints of the floating world from the 17th through the 19th centuries will be included. The rich resources in the Nelson-Atkins Museum will receive special attention.

3 hrs

ART 458 CERAMIC ART OF CHINA AND JAPAN
A study of the development of pottery and porcelain arts from the prehistoric pottery of China and Japan to the polychrome glazed porcelains of the 18th century in both countries. Ceramic models and figural sculpture as well as ceramic architectural ornamentation will be included. The Nelson-Atkins Museum collection will be used extensively.

3 hrs

ART 459 ARCHITECTURE AND GARDENS OF CHINA AND JAPAN
Among the topics that will be considered in this course are the development of the pagoda and other temple architecture (Buddhist, Confucian, Taoist and Shinto). Palace and domestic architecture of both countries and the castle architecture of Japan as well as the literati and Zen gardens unique to China and Japan will all be included. Prerequisite: ART 319 or permission of instructor.

3 hrs

ART 460  Oceanic Arts
The arts of Polynesia, Micronesia and Melanesia express a concept of the world that came to an end for most cultures in the Pacific in the 19th century, certainly by the early 20th century. Spectacular in form and complex in meaning, they range from art forms associated with centralized leadership to those associated with men's societies, esoteric knowledge and status enhancement. Emphasis will be placed on the stylistic relationships between island groupings and the contexts in which the varying arts are employed. Prerequisite: ART 315 or permission of instructor.

3 hrs

ART 473  Visual Arts Administration
This course on professional arts administration includes assignments in: copyright laws, database management, ethics issues, evaluation design, gallery museum management, grant writing and budgeting, public relations, resume design, tax laws, and website design and management. Students are required to learn relevant computer programs. This course is also open to music and theatre majors. Prerequisite: permission of instructor. Offered: Winter.

3 hrs

ART 480  Art Since 1945
An inquiry into the range and purpose of the visual arts since 1945. Taught in a seminar format. Prerequisite: Permission of Department Advisor or instructor of the course. Annually.

3 hrs

ART 482  Scope & Methods Of Art History
A history of the discipline, bibliography, procedures and methods, sources, and cataloging of illustrative materials, and similar topics essential to majors in art history. Prerequisites: Senior standing and permission of instructor. Every Winter.

3 hrs

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

3 hrs

ART 486  Special Topics In Art Education
With permission of the department, an advanced student already certified to teach art may pursue special studies in art education on a seminar or tutorial basis. Every semester.

2-4 hrs

ART 495  Technical Studies In Art
With the permission of the department, an advanced student may pursue a technical investigation on a seminar or individual basis. Every semester.

2-4 hrs

ART 495 A  Technical Studies In Art: Papermaking

2-4 hrs

ART 497 A  Special Studies In Medieval/Renaissance Art
With the permission of the department, an advanced student may pursue a selected subject on a seminar or tutorial basis. Acceptable for graduate credit with approval. Every semester.

1-6 hrs

ART 497 B  Special Studies In Baroque/Rococo Art
With the permission of the department, an advanced student may pursue a selected subject on a seminar or tutorial basis. Acceptable for graduate credit with approval. Every semester.

1-6 hrs

ART 497 C  Special Studies In 19Th- And 20Th-Century Art
With the permission of the department, an advanced student may pursue a selected subject on a seminar or tutorial basis. Acceptable for graduate credit with approval. Every semester.

1-6 hrs

ART 497 D  Special Studies In American Art And Architecture
With the permission of the department, an advanced student may pursue a selected subject on a seminar or individual basis. Acceptable for graduate credit with approval. Every semester.

1-6 hrs

ART 497 E  Special Studies In Art Museum
Selections from the permanent collections and loan exhibitions in the Nelson-Atkins Museum are studied with attention to historical, aesthetic and technical considerations. Prerequisites: Junior standing and at least nine hours of art history. Every semester.

1-6 hrs

ART 497 F  Special Topics In Asian Art
With the permission of the department, an advanced student may pursue a selected subject on a seminar or individual basis. Acceptable for graduate credit with approval. Prerequisite: ART 319 or permission of instructor. Offered: Every semester.

1-6 hrs
ART 497 H  SPECIAL STUDIES IN THE ART OF AFRICAN, OCEANIC, AND NEW WORLD CULTURES
With permission of the department, an advanced student may pursue a selected subject on a seminar or tutorial basis. Acceptable for graduate credit with approval. Every semester.
1-6 hrs

ART 497 I  SPECIAL STUDIES IN ANCIENT ART
An advanced student may pursue a selected subject on seminar or tutorial basis. Acceptable for graduate credit with approval. Prerequisite: Permission of Department. Every semester.
1-6 hrs

ART 497 J  SPECIAL STUDIES IN ART
1-6 hrs

ART 498 A  SPECIAL PROBLEMS IN DRAWING
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. Every semester.
1-6 hrs

ART 498 B  SPECIAL PROBLEMS IN PAINTING
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. May be repeated for credit. Every Semester.
1-6 hrs

ART 498 E  SPECIAL PROBLEMS IN GRAPHIC DESIGN
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. Every semester.
1-6 hrs

ART 498 F  SPECIAL PROBLEMS IN CASTING
1-6 hrs

ART 498 G  SPECIAL PROBLEMS IN CONSTRUCTION
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. On demand.
1-6 hrs

ART 498 I  ADVANCED PROBLEMS IN LITHOGRAPHY
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. Every semester.
1-6 hrs

ART 498 J  ADVANCED PROBLEMS IN INTAGLIO
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. Every semester.
1-6 hrs

ART 498 L  SPECIAL PROBLEMS IN PHOTOGRAPHY
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. Every semester.
1-6 hrs

ART 498 M  SPECIAL PROBLEMS IN ELECTRONIC/MEDIA
With permission of the Department, an advanced student may pursue selected projects in electronic media on a group or individual basis. Acceptable for graduate credit with approval. Prerequisites: Permission of Instructor. Semester Offered: Every.
1-6 hrs

ART 498 O  SPECIAL PROBLEMS IN GRAPHIC DESIGN INTERNSHIP
Advanced students are accepted into the production studios of participating graphic design companies in the metropolitan region as a training experience. Prerequisite: Permission of the department.
1-6 hrs

ART 498 Q  SPECIAL STUDIES IN ART: INTERNSHIP
Advanced students gain invaluable practical experience in a professional setting in the field of art.
1-6 hrs

ART 499 WI  SENIOR SEMINAR
Capstone course for studio majors in all media. Meets once a week, three hours. Course covers contemporary issues in the arts, and critical theory. Seminar discussions are based on readings, guest speakers, visiting artists, and students' research. Intention of course is to address theoretical and practical issues in studio art practice, and to prepare students for graduation. Multiple papers, class presentation, and class participation are required. This course is writing intensive. Successful completion of the WEPT test required prior to enrolling. Prerequisite: Senior standing in studio. Offered: Winter Semester Annually
3 hrs

ART AND ART HISTORY
ART-HIST 300 CJ  CLUSTER COURSE: AESTHETICISM IN THE ARTS
This cluster course will deal with aesthetic problems in the arts illustrated with specific examples in music, literature and the visual arts. Winter.

3 hrs

ART-HIST 403  ADVANCED TYPOGRAPHY
A continuation of ART 203, Introduction to Typography, this course looks at more sophisticated typographic use, using advanced layout and design principles, based on both historical and contemporary typographic design practice. In addition, typographic design theory will be studied as a basis for practice and experimentation. The influence of the computer in contemporary typographic design will be studied through lecture and practice. Typography in motion-and time-based media such as websites and multimedia presentations will be examined in how these forms of typography differ from 2-dimensional type usage.

3 hrs

ART-HIST 436  INTRODUCTION TO GRAPHIC DESIGN AND DESKTOP PUBLISHING
Students will gain a basic understanding of two-dimensional design, typography, and graphic design. Introductory skills in industry-standard computer design software will be offered. Issues and techniques related to the field of graphic design will be discussed. Restrictions: Does not count towards Studio Art major requirements.

4 hrs

ART-HIST 437  INTRODUCTION TO DIGITAL IMAGING AND COMPUTER MULTIMEDIA
Students will acquire a basic understanding of lens-based image creation using still and video camera. Introductory skills in industry-standard multimedia software will be used. Issues and techniques related to the field of electronic media will be discussed. Restrictions: Does not count towards Studio Art major requirements.

4 hrs

ART-HIST 438  FIRST FRIDAYS: GUIDED SELF STUDY
Students will be exposed to contemporary issues in art through readings, discussions, and audio-visual presentations. Various types of art will be viewed and experienced in professional art venues (galleries, museums, alternative spaces). Independent visual and written projects related to lectures and visits will be required. Restrictions: Does not count towards Studio Art major requirements. Concurrent enrollment in ART436P or ART 437P is required.

4 hrs

ART-HIST 497  SPECIAL STUDIES IN ART HISTORY: INTERNSHIP
Advanced art history students gain invaluable practical experience in a professional setting in the field of art.

1-6 hrs

ART-HIST 497  Q  SPECIAL STUDIES IN ART HISTORY: INTERNSHIP
Advanced art history students gain invaluable practical experience in a professional setting in the field of art. Prerequisite: Permission of the department.

1-6 hrs

ART-HIST 498  SPECIAL STUDIES IN ART: INTERNSHIP
Advanced students gain invaluable practical experience in a professional setting in the field of art. Prerequisite: Permission of the department.

1-6 hrs

ART 100  TOPICAL STUDIES IN ART HISTORY
This course consists of a series of lectures on selected subjects of European, American and Oriental art. No prerequisite. Does not meet baccalaureate requirements in fine arts. Does not meet departmental requirements for art or art history majors.

1-3 hrs

ART 101  TOPICAL STUDIES IN STUDIO ART
(A,B,C,D) This course provides students with an opportunity to explore offerings in a variety of fine arts media. No prerequisite. Does not meet baccalaureate requirements in the fine arts. Different sections of the course may be repeated.

1-3 hrs

ART 101  B  TOPICAL STUDIES IN STUDIO ART

1-3 hrs

ART 101  G  TOPICAL STUDIES IN STUDIO ART

1-3 hrs

ART 101  P  TOPICAL STUDIES

3 hrs

ART 105  INTRODUCTION TO PHOTOGRAPHY
An introduction to the general practice of photography. This course is intended for non-majors. It does not serve as a prerequisite for advanced art photography courses. The course centers on the basic technical and aesthetic aspects of the medium. A fully adjustable 35mm camera is required. Offered: Every semester.

3 hrs

ART 110  INTRODUCTION TO THE VISUAL ARTS
An introduction to the study of art—especially architecture, sculpture, painting and the graphic arts. Consideration given to purpose and patronage, the visual elements, design and techniques. The meaning of style and expression is studied in the context of the historical background of chief periods of Western civilization. This course meets the college fine arts requirement, but does not count towards the art history requirement for departmental majors. Every semester.

3 hrs
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 112</td>
<td>Foundation Drawing</td>
<td>Drawing on the introductory level. Every semester.</td>
</tr>
<tr>
<td>ART 114</td>
<td>Introduction To Computer Multimedia</td>
<td>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.</td>
</tr>
<tr>
<td>ART 116</td>
<td>Computer Animation</td>
<td>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.</td>
</tr>
<tr>
<td>ART 121</td>
<td>Foundation Design--Two Dimensional</td>
<td>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.</td>
</tr>
<tr>
<td>ART 131</td>
<td>Foundation Design--Three Dimensional</td>
<td>Introductory study in three-dimensional formal principles with emphasis on the aesthetic properties. Prerequisite: ART 112. Every semester.</td>
</tr>
<tr>
<td>ART 203</td>
<td>Introduction To Typography</td>
<td>The format and applied aspects of typography are studied in the context of the design process, involving basic concepts of copyfitting, specification of type, layout, and the use of computer assisted design software. Prerequisites: ART 112, ART 121, and ART 131.</td>
</tr>
<tr>
<td>ART 204</td>
<td>Computer Multimedia I</td>
<td>Introductory level computer multimedia. This course is intended for studio majors. General techniques and practical application of animation, imaging, video, text and sound to multimedia. Lectures, demonstrations, readings, discussions and application sessions. Prerequisite: Studio major or permission of instructor. Offered: Fall and Winter.</td>
</tr>
<tr>
<td>ART 206</td>
<td>Photography I</td>
<td>An introduction to photography as a means of creative self-expression. The course centers on the technical and aesthetic aspects of the medium. Extensive darkroom work will be required. A fully adjustable 35mm camera is required. Prerequisites: Studio major or permission of instructor. Offered: Every semester.</td>
</tr>
<tr>
<td>ART 212</td>
<td>Intermediate Drawing</td>
<td>Continuation of foundation drawing. Emphasis is on gaining technical facility with various drawing mediums and expanding conceptual approaches. Prerequisites: ART 112 Offered: Every Semester</td>
</tr>
<tr>
<td>ART 221</td>
<td>Introductory Painting</td>
<td>Exploration of the visual language in paint. Emphasis on continuing color and design exploration. Prerequisites: ART 112, ART 121, ART 212. Every semester.</td>
</tr>
<tr>
<td>ART 224</td>
<td>Introductory Printmaking</td>
<td>An introduction to the process and technique of printmaking centering on metalplate printing. Prerequisites: ART 212,ART 221. Annually.</td>
</tr>
<tr>
<td>ART 231</td>
<td>Introductory Sculpture</td>
<td>Introductory study of sculptural expression and technique in a variety of materials and processes. Prerequisite: ART 131. Every semester.</td>
</tr>
<tr>
<td>ART 235</td>
<td>Digital Imaging I</td>
<td>This is an introductory course to the computer as a creative tool for the visual artist. Images will be digitized, enhanced and altered. Practical and ethical issues regarding digital image processing are explored. Various input and output options will be discussed.</td>
</tr>
<tr>
<td>ART 244</td>
<td>Visual Tools For The Computer</td>
<td>Specific training in using software programs (such as Adobe Photoshop, Adobe Illustrator, Quark Express, etc.) for artists, architects, and graphic designers. Each section deals with a different program and thus the course may be repeated if the student signs up for a different section. Prerequisite: None.</td>
</tr>
</tbody>
</table>
ART 245  DIGITAL APPLICATIONS
This is an introductory class to software that has graphic and desktop applications. The course will deal principally with digital graphic software that is currently considered the industry standard. The class will also touch on other software that can have an impact on future computer applications pertaining to applied design. Through a variety of class projects/exercises, students will learn various software and how they interrelate. The class is open to all art students and general students. It will be a prerequisite for studio art students with a graphic design emphasis before entering advanced graphic design classes. (Course replaces visual tools, ART 244A, ART 244B, ART 244C which is a series of three one hour classes.) Offered: Fall

3 hrs

ART 246  DIGITAL APPLICATIONS
This is an introductory class to software that has graphic and desktop applications. The course will deal principally with digital graphic software that is currently considered the industry standard. The class will also touch on other software that can have an impact on future computer applications pertaining to applied design. Through a variety of class projects/exercises, students will learn various software and how they interrelate. The class is open to all art students and general students. It will be a prerequisite for studio art students with a graphic design emphasis before entering advanced graphic design classes. (Courses replaces visual tools, ART 244A, ART 244B, ART 244C, which is a series of three one hour classes.) Offered: Fall

3 hrs

ART 253  HISTORY OF THE DESIGNED ENVIRONMENT I, ANCIENT AND MEDIEVAL
An overview of developments in architectural, urban, land and interior design which have shaped the physical environment of the Western world from prehistory through the period known as the "Romanesque." Emphasis will be given to relationships between institutions, values and needs of different societies and the architectural forms produced by those societies. Prerequisite: None.

3 hrs

ART 254  HISTORY OF THE DESIGNED ENVIRONMENT II, LATE MEDIEVAL TO MODERN
An overview of developments in architectural, urban, land and interior design which have had an impact on the physical environment of the Western World from the Gothic era to the beginning of the modern era. A central objective of the course is to gain an understanding of why these developments occurred and how the needs and aspirations of a given time were manifested in physical form. Prerequisite: None.

3 hrs

ART 255  HISTORY OF THE DESIGNED ENVIRONMENT III, MODERN (1750 TO PRESENT)
An overview of developments in architectural, urban, land and interior design which have shaped the physical environment of the Western world during the Modern period. Issues to be explored include renewed interest in archaeology during the eighteenth century, shifts in patronage, the impact of new industrial materials and techniques, demands for an array of new building types, and dilemmas of expression throughout the modern era. Our concerns will broaden and become more global in scope when we examine the twentieth century. Prerequisite: None.

3 hrs

ART 300  INTERDISCIPLINARY STUDIES/CLUSTER COURSE OFFERINGS I

3 hrs

ART 300 CA  CLUSTER COURSE: IMAGES OF THE HUMAN BODY IN THE RENAISSANCE
Focusing on Renaissance conceptions of the human body, this cluster treats the following topics as they are reflected in Renaissance literature, art, astrology, astronomy, biology, anatomy, medicine and politics: A) The dignity of the human body B) Microcosm and macrocosm C) Stranger manifestations: freaks and beasts D) The humors E) Disorders of the human body F) The body politic G) The human body as an object of study. On demand.

3 hrs

ART 300 CD  CC: THE AFRICAN DIASPORA IN THE ARTS AND CULTURE
This new cluster course examines aspects of African culture in the Diaspora: Africa, the Caribbean and certain parts of South and North America. Attention will be on charms, painting, sculpture, secret scripts, textiles, as well as religions and spirituality. Understanding African Diaspora culture also involves an analysis of historical and sociological movements, the interpretation of written culture, and the effects of Africa's response to colonialism. The transmission and transformation of African cultures will be addressed by a close investigation of visual and material culture, and the cosmological constructions of African peoples. Methodologies are from the Art History, Literature and Religious Studies. Restrictions: Sophomore or above.

3 hrs

ART 300 CF  CLUSTER COURSE: AFRICAN/AFRICAN AMERICAN WOMEN AND CREATIVITY

3 hrs

ART 300 CH  CLUSTER COURSE: HEALING AND THE ARTS

3 hrs

ART 300 CM  CLUSTER COURSE: BODY IMAGES IN MEDICINE AND THE ARTS

3 hrs

ART 300 CS  CC: SIGHT AND SOUND--AN EXAMINATION OF PERCEPTUAL EXPERIENCE
Faculty from at least two different departments (one of which must be a department in the division of humanities including history) may determine the topic and syllabus, subject to the approval of the director of Integrated Studies and the program's advisory committee in addition to the approval of the departments involved. This special topics course will satisfy the interdisciplinary course requirement for the B.A. Offered Fall/Winter.

3 hrs

ART 300 CW  CC: WOMEN IN A MAN'S WORLD: GENDER, SEX & STATUS IN CLASSICAL

3 hrs

ART 301  SURVEY OF WESTERN ART: I
A survey of ancient and medieval Western art. The course will begin with the great civilizations of the Mediterranean basin and consider the changes wrought by the introduction of Christianity and Islam. Study of the medieval era will include Romanesque and Gothic architecture through the 19th century, but will not include the beginnings of panel painting nor of independent sculpture. This course meets the college fine arts requirement. Every semester.
ART 302  SURVEY OF WESTERN ART II
A survey of late medieval, Renaissance and Baroque art in Europe. The course will start with the beginnings of panel painting, independent sculpture and the graphic arts in late medieval Europe, trace the coming of the Renaissance in architecture and the figurative arts, and conclude with the Baroque tradition. This course meets the college Fine Arts requirement. Every semester.

ART 303  SURVEY OF WESTERN ART III
A survey of European and American art and architecture, beginning with the origins of the Romantic movement in the 18th century and concluding with contemporary work. This course meets the college Fine Arts requirement. Every semester.

ART 305  PHOTOGRAPHY II
An advanced course in which students develop a deeper understanding of personal interests, sensibilities and goals as they relate to producing and appreciating creative photography. Prerequisite: ART 206. Every semester.

ART 308  LITHOGRAPHY
Study of stone lithographic process. Prerequisite: ART 224. Winter.

ART 309  INTAGLIO
Advanced study of intaglio printing processes. Prerequisite: ART 224. Annually.

ART 310  COMPUTER MULTIMEDIA II
Continuation of ART 204, Intermediate level computer multimedia. This course is intended for studio majors. General techniques and practical application sessions. Prerequisites: ART 204 and specific permission of instructor. Offered: Fall and Winter.

ART 311  PAINTING I
Painting in oil or acrylic on the intermediate level. Emphasis on continuing color and design exploration. Prerequisite: ART 212, ART 221. Every semester.

ART 312  FIGURE DRAWING I
A study of the structure of the human figure with emphasis on the dynamics of figure movement. Prerequisite: ART 212. Annually.

ART 313  GRAPHIC DESIGN I
Intermediate study of graphic design methodology and techniques, stressing a visual approach to problem solving in design, image making techniques, materials, and production processes standard to the industry. Prerequisites: ART 203, ART 206, ART 212, ART 224 or permission of the instructor.

ART 314  GRAPHIC DESIGN PRODUCTION
Study of the Mechanical procedures and techniques used for the realization of graphic design production. Prerequisite: Instructor’s permission. Winter.*

ART 315  ART OF AFRICAN, OCEANIC, AND NEW WORLD CULTURES
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.

ART 319  ASIAN ART
The survey will emphasize the philosophical and cultural context of the arts of India, Southeast Asia, China, Korea and Japan. The course will stress the elements that give an underlying unity to the arts as well as those qualities which distinguish the art of each country as unique. Each Fall.

ART 322  ADVANCED DRAWING
Further development of technique and content. Emphasis is on forming and clarifying a personal voice. Prerequisite: ART 212 Offered: Annually.

ART 335 A  DIGITAL IMAGING II
This class will strengthen the competence and knowledge of digital imaging techniques. Research, conceptual and verbal abilities within digital image making will be explored. Students will apply new techniques to their personal interests in the studio arts. Prerequisite: Digital Imaging 1 or permission of instructor.
ART 353  THE DESIGN AND FORM OF KANSAS CITY
An overview of the historical development of Kansas City with a particular emphasis on the architecture, and the factors influencing what was built, when and where. Prerequisite: Junior standing and a previous course in the history of art or architecture, or permission of the instructor. May not be taken for graduate credit. Offered: Fall
3 hrs

ART 403  ADVANCED TYPOGRAPHY
A continuation of ART 203, Introduction to Typography, this course looks at more sophisticated typographic use, using advanced layout and design principles, based on both historical and contemporary typographic design practice. In addition, typographic design theory will be studied as a basis for practice and experimentation. The influence of the computer in contemporary typographic design will be studied through lecture and practice. Typography in motion-and time-based media such as web-sites and multimedia presentations will be examined in how these forms of typography differ from 2-dimensional type usage. Prerequisite: ART 413 Offered: On demand
3 hrs

ART 404  COMPUTER MULTIMEDIA III
Continuation of ART 310. Advanced level computer multimedia. This course is intended for studio majors. Lectures, demonstrations, readings, discussions and application sessions. Prerequisites: ART 310 and specific permission of instructor. Offered: Fall and Winter.
3 hrs

ART 405  ART IN SECONDARY SCHOOL
An introduction to the special problems, procedures and materials associated with the art curriculum in the public schools. This course meets certification requirements in "Special Methods of Teaching Field." Prerequisites: The equivalent of senior standing in art plus permission of the instructor. Winter semester only.
3 hrs

ART 406  ADVANCED PROBLEMS IN PHOTOGRAPHY
This course provides students a forum in which the issues and techniques of contemporary photography can be investigated on a rather esoteric level. The format of the course allows for a mutual decision by the instructor and students, dictating which investigations will be pursued during that particular semester. Possible areas of investigation would include, but are not limited to, color photographic theory and practice, non-silver photographic techniques (e.g. Kiwiprint, gum bichromate, cyanotype, Van Dyke Brown, etc.), hand coloring techniques, photo-collage, etc. Prerequisite: ART 305, or permission of instructor.
3 hrs

ART 411  PAINTING II: OIL/ACRYLIC
Painting on the advanced level with individual selection of medium and technique. Prerequisite: ART 311. Every semester.
3 hrs

ART 412  FIGURE DRAWING II
A continuation of Figure Drawing I, ART 312. Drawing on the advanced level with study of the figure in environmental context. Prerequisite: ART 312 or ART 322. Annually.
3 hrs

ART 413  GRAPHIC DESIGN II
Advanced study in graphic design methodology and techniques, involving more intense project problem solving. Projects include visual communication strategies of a more advanced nature including newsletter, brochures, annual report, book, magazine and journalism spreads. Prerequisite: ART 313.
3 hrs

ART 415 WI  ROMANTICISM
Art of the Romantic Era, principally in Europe, from c. 1790 to c. 1860. Consideration is given to the problems of patronage, criticism and stylistic influences. Prerequisite: ART 303 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.
3 hrs

ART 416 WI  LATER 19TH CENTURY PAINTING AND SCULPTURE
From Realism through Post-Impressionism. A study of art, principally in Europe, from c. 1850 to c. 1905, with consideration given to factors influencing stylistic changes during this period. May be taken independently of ART 415. Prerequisite: ART 303 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Fall, odd years.
3 hrs

ART 421  PAINTING III: OIL/ACRYLIC
Continuation of ART 411. Prerequisite: ART 411. Every semester.
3 hrs

ART 422  ADVANCED DRAWING II
Continuation of ART 322. Prerequisite: ART 312 or ART 322. Annually.
3 hrs

ART 423 WI  DESIGN SEMINAR
Critical issues in design, design theory and design history/personalities (specific individuals and movements critical to contemporary design practice) from selected readings, slide presentations and invited speakers. A research paper/presentation on a topic evolving from the topics discussed will be required. The course will also address resume and portfolio preparation for design majors. Prerequisites: ART 313, ART 413 or instructor's permission Offered: On Demand
3 hrs

ART 424  EARLY 20TH CENTURY EUROPEAN PAINTING AND SCULPTURE
A study of European painting and sculpture from c. 1900 to c. 1940. Prerequisite: ART 303 or permission of instructor. Winter, odd years.
3 hrs
ART 426  **Twentieth Century Painting**
A study of major artists and stylistic changes in painting, beginning c. 1905. Consideration also given to the role of media and to drawings and prints during this period. Prerequisite: ART 303 or permission of instructor. Offered: On demand.

3 hrs

ART 427  **Twentieth Century Sculpture**
A study of major artists and stylistic changes in sculpture, beginning c. 1905. Consideration also given to the role of new materials and techniques. Prerequisite: ART 318. On demand.*

3 hrs

ART 428  **American Architecture and Urbanism**
A survey of architecture and urbanism in the United States. We begin in the early years of the republic, but focus on the period from the Civil War to the present. Topics include the planning and development of major American cities, the creation of the skyscraper as a new commercial type, the evolution and design of the suburb, the emergence of the United States as the center of modernism following World War II and its displacement from that center with the pluralistic trends of the last three decades. Prerequisites: ART 254, ART 303 or instructor's permission. Offered: Fall.

3 hrs

ART 429 WI  **American Painting and Sculpture**
A study of the history of painting and sculpture, and other figurative arts, from earliest colonial times to the present. Emphasis will be placed on those artists who illuminate the major achievements in American art, and also the ongoing role played by European training and tradition. Prerequisite: ART 303 or permission of the instructor and successful completion of the WEPT (effective FS93). Offered: Fall, even years.

3 hrs

ART 430  **Graphic Design III**
Advanced application of graphic design techniques to complex design problems. The course will stress individualized assignments and portfolio preparation. Prerequisite: ART 413 which may be taken concurrently. Offered: WS96

3 hrs

ART 436 P  **Introduction to Graphic Design and Desktop Publishing**
Students will gain a basic understanding of two dimensional design, typography, and graphic design. Introductory skills in industry standard computer design software will be offered. Issues and techniques related to the filed of graphic design will be discussed. Restrictions: Does not count towards Studio Art major requirements

4 hrs

ART 437 P  **Introduction to Digital Imaging and Computer Multimedia**
Students will acquire a basic understanding of lens-based image creation using still and video cameras. Introductory skills in industry standard multimedia software will be used. Issues and techniques related to the field of electronic media will be discussed. Restrictions: Does not count towards Studio Art major requirements

4 hrs

ART 438 P  **First Fridays: Guided Self-Study**
Students will be exposed to contemporary issues in art through readings discussions, and audio-visual presentations. Various types of art will be viewed and experienced in professional art venues (galleries, museums, alternative spaces). Independent visual and written projects related to lectures and visits will be required. Restrictions: Does not count towards Studio Art requirements. Concurrent enrollment in ART 436P or ART 437P is required.

4 hrs

ART 440 WI  **French Art: Renaissance and Baroque**
A history of French art from the time of Louis XII through the Age of Louis XIV, with emphasis on painting and architecture. Prerequisite: ART 302 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

3 hrs

ART 441 WI  **Northern Baroque: The Age of Rubens, Rembrandt And Wren**
The arts of England and the Low Countries in the 17th and early 18th centuries. Emphasis on painting and the graphic arts in the Spanish and Dutch Netherlands and on architecture in England. Prerequisite: ART 302 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

3 hrs

ART 442  **Art Of Sub-Saharan Africa**
This course presents an in-depth study of African Art from the sub-Sahara Region. The first half of the course will explore the major art-producing archaeological cultures of Mali, Nigeria, Chad, and Zimbabwe. The second half will concentrate on the ethnographic present and focuses on the major art-producing cultures of West, Central and Southern Africa. Prerequisite: ART 315 or instructor's permission. Offered: On demand.

3 hrs

ART 443  **Pre-Columbian Art**
The course will discuss 2500 years of the arts of ancient Mexico, Guatemala and Peru. Included is the rise of such important cultures as the Olmec, Maya, Aztec and Inca. Equal emphasis will be placed on the development of elaborate ceremonial centers such as Monte Alban and the Teotihuacan as well as the ceramic tradition of the West and East coasts of Mexico and the ceramic textile traditions of pre-Columbian Peru. Prerequisite: ART 315 or permission of instructor. Offered: On demand.

3 hrs

ART 445  **Northern European Art: 15th And 16th Centuries**
A study of panel painting, sculpture and manuscript illumination in Flanders, France, Germany, and Spain from the Hundred Years' War through the Reformation. Special emphasis will be placed upon the stylistic and iconographic innovations of such major Northern artists as Claus Sluter, Jan van Eyck, Jerome Bosch, Pieter Bruegel, Jean Fouquet and Albrecht Durer. Artistic developments will be presented within the context of changing economic, political, religious and social institutions of the period. Prerequisite: ART 302 or permission of instructor. Offered: On demand.

3 hrs
ART 447 WI  ITALIAN BAROQUE: THE AGE OF CARAVAGGIO, Bernini AND BORROMINI
Painting, sculpture and architecture in Italy from the creation of the Baroque style in the late 16th century to the beginnings of the Baroque era. Prerequisite: ART 302 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

3 hrs

ART 448 WI SPANISH ART: EL GRECO TO GOYA
A history of Spanish art from the later fifteenth century to the Napoleonic invasion. Prerequisite: ART 302 or permission of instructor and successful completion of the WEPT (effective FS93). Offered: Every other year.

3 hrs

ART 449  ART AND ARCHITECTURE IN THE AGE OF ENLIGHTENMENT
Painting, sculpture and architecture in France, Italy, England, Spain and Central Europe during the 18th-century. Prerequisite: ART 302 or permission of instructor.

3 hrs

ART 450  15TH CENTURY ITALIAN ART AND ARCHITECTURE
An examination of the visual arts from the International Style and the Early Renaissance to the beginnings of the High Renaissance. Problems of patronage, artistic theory, the Antique, the role of art in humanist circles, and the effect of religious, political and economic developments on the arts will also be discussed. Prerequisite: ART 110 or ART 302 or permission of instructor.

3 hrs

ART 452  GREEK ART AND ARCHITECTURE
A survey of Greek sculpture, vase painting, and architecture from the third millennium to the first-century B.C. Emphasis will be placed on the relationship of Minoan and Helladic aesthetics, and the connections between late Helladic and Geometric forms, and the nature and development of the classical and baroque styles. Prerequisite: ART110 or ART 301 or permission.

3 hrs

ART 453  ROMAN ART AND ARCHITECTURE
The subjects to be included are: wall painting, portraiture, sarcophagi, historical reliefs, and secular and religious architecture. Emphasis will be placed on material from the Late Republic to The Severan period. Prerequisite: ART 301 or permission of instructor.

3 hrs

ART 454  16TH CENTURY ITALIAN ART AND ARCHITECTURE
The visual arts in Italy from the beginnings of the High Renaissance in the late 15th century through the Late Renaissance and the developing phenomenon of Mannerism. The effect of religious, political and economic developments will be discussed as well as problems of patronage, artistic theory and the role of art in humanist circles. Prerequisite: ART 110 or ART 302 or permission of instructor.

3 hrs

ART 455  HISTORY OF PHOTOGRAPHY
A survey of the history of photography as a pictorial art; technical developments and the interaction of photography with other arts will be included. Prerequisite: ART 303 or permission of instructor. Offered: On demand.

3 hrs

ART 456  THE PAINTING AND SCULPTURE OF CHINA
Jade sculptures of the 14th-century B.C., the terra cotta army of the first emperor of China, Buddhist and secular sculptures from the Han through the Sung dynasties will be covered. The study of Chinese painting will include important new discoveries of paintings on silk dating from the third century B.C.; figure and landscape scrolls, and wall paintings from the fourth through 20th centuries A.D. The masterpieces in the Nelson-Akins Museum will be examined in detail.

3 hrs

ART 457  THE PAINTING AND SCULPTURE OF JAPAN
Clay sculptures from 3,000 B.C.; the haniwa sculptures from the fourth century A.D., and Buddhist sculpture from the sixth through the 14th centuries as well as the rich tradition of portrait sculptures will be the focus of the first half of the course. The study of paintings will begin with mural paintings preserved in tombs from the fourth century A.D. Murals in Buddhist temples; painted screen and sliding panels from temple buildings, castles and palaces; Zen painting; paintings and prints of the floating world from the 17th through the 19th centuries will be included. The rich resources in the Nelson-Akins Museum will receive special attention.

3 hrs

ART 458  CERAMIC ART OF CHINA AND JAPAN
A study of the development of pottery and porcelain arts from the prehistoric pottery of China and Japan to the polychrome glazed porcelains of the 18th century in both countries. Ceramic models and figural sculpture as well as ceramic architectural ornamentation will be included. The Nelson-Akins Museum collection will be used extensively.

3 hrs

ART 459  ARCHITECTURE AND GARDENS OF CHINA AND JAPAN
Among the topics that will be considered in this course are the development of the pagoda and other temple architecture (Buddhist, Confucian, Taoist and Shinto). Palace and domestic architecture of both countries and the castle architecture of Japan as well as the literati and Zen gardens unique to China and Japan will all be included. Prerequisite: ART 319 or permission of instructor.

3 hrs

ART 460  OCEANIC ARTS
The arts of Polynesia, Micronesia and Melanesia express a concept of the world that came to an end for most cultures in the Pacific in the 19th century, certainly by the early 20th century. Spectacular in form and complex in meaning, they range from art forms associated with centralized leadership to those associated with men's societies, esoteric knowledge and status enhancement. Emphasis will be placed on the stylistic relationships between island groupings and the contexts in which the varying arts are employed. Prerequisite: ART 315 or permission of instructor.

3 hrs
ART 473  VISUAL ARTS ADMINISTRATION
This course on professional arts administration includes assignments in: copyright laws, database management, ethics issues, evaluation design, gallery museum management, grant writing and budgeting, public relations, resume design, tax laws, and website design and management. Students are required to learn relevant computer programs. This course is also open to music and theatre majors. Prerequisite: permission of instructor. Offered: Winter.

3 hrs

ART 480  ART SINCE 1945
An inquiry into the range and purpose of the visual arts since 1945. Taught in a seminar format. Prerequisite: Permission of Department Advisor or instructor of the course. Annually.*

3 hrs

ART 482  SCOPE & METHODS OF ART HISTORY
A history of the discipline, bibliography, procedures and methods, sources, and cataloging of illustrative materials, and similar topics essential to majors in art history. Prerequisites: Senior standing and permission of instructor. Every Winter.

3 hrs

ART 485  TECHNICAL COLLOQUIUM
An advanced study of technical matters pertinent to the production and study of art. Demonstration projects required. Prerequisite: Permission of department. Offered: Every Fall.

3 hrs

ART 486  SPECIAL TOPICS IN ART EDUCATION
With permission of the department, an advanced student already certified to teach art may pursue special studies in art education on a seminar or tutorial basis. Every semester.

2-4 hrs

ART 495  TECHNICAL STUDIES IN ART
With the permission of the department, an advanced student may pursue a technical investigation on a seminar or individual basis. Every semester.

2-4 hrs

ART 495 A  TECHNICAL STUDIES IN ART: PAPERMAKING

2-4 hrs

ART 497 A  SPECIAL STUDIES IN MEDIEVAL/RENAISSANCE ART
With the permission of the department, an advanced student may pursue a selected subject on a seminar or tutorial basis. Acceptable for graduate credit with approval. Every semester.

1-6 hrs

ART 497 B  SPECIAL STUDIES IN BAROQUE/ROCOCO ART
With the permission of the department, an advanced student may pursue a selected subject on a seminar or tutorial basis. Acceptable for graduate credit with approval. Every semester.

1-6 hrs

ART 497 C  SPECIAL STUDIES IN 19TH- AND 20TH-CENTURY ART
With the permission of the department, an advanced student may pursue a selected subject on a seminar or tutorial basis. Acceptable for graduate credit with approval. Every semester.

1-6 hrs

ART 497 D  SPECIAL STUDIES IN AMERICAN ART AND ARCHITECTURE
With the permission of the department, an advanced student may pursue a selected subject on a seminar or individual basis. Acceptable for graduate credit with approval. Every semester.

1-6 hrs

ART 497 E  SPECIAL STUDIES IN ART MUSEUM
Selections from the permanent collections and loan exhibitions in the Nelson-Atkins Museum are studied with attention to historical, aesthetic and technical considerations. Prerequisites: Junior standing and at least nine hours of art history. Every semester.

1-6 hrs

ART 497 F  SPECIAL TOPICS IN ASIAN ART
With the permission of the department, an advanced student may pursue a selected subject on a seminar or individual basis. Acceptable for graduate credit with approval. Prerequisite: ART 319 or permission of instructor. Offered: Every semester.

1-6 hrs

ART 497 H  SP ST IN THE ART OF AFRICAN, OCEANIC, AND NEW WORLD CULTURES
With the permission of the department, an advanced student many pursue a selected subject on a seminar or tutorial basis. Acceptable for graduate credit with approval. Every semester.

1-6 hrs

ART 497 I  SPECIAL STUDIES IN ANCIENT ART
An advanced student may pursue a selected subject on seminar or tutorial basis. Acceptable for graduate credit with approval. Prerequisite: Permission of Department. Every semester.

1-6 hrs
**ART 497 J**  SPECIAL STUDIES IN ART

1-6 hrs

**ART 498 A**  SPECIAL PROBLEMS IN DRAWING
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. Every semester.

1-6 hrs

**ART 498 B**  SPECIAL PROBLEMS IN PAINTING
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. May be repeated for credit. Every Semester.

1-6 hrs

**ART 498 C**  SPECIAL PROBLEMS IN GRAPHIC DESIGN
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. Every semester.

1-6 hrs

**ART 498 D**  SPECIAL PROBLEMS IN CONSTRUCTION
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. On demand.

1-6 hrs

**ART 498 E**  SPECIAL PROBLEMS IN GRAPHIC DESIGN
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. Every semester.

1-6 hrs

**ART 498 F**  SPECIAL PROBLEMS IN CASTING

1-6 hrs

**ART 498 G**  SPECIAL PROBLEMS IN CONSTRUCTION
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. On demand.

1-6 hrs

**ART 498 H**  SPECIAL PROBLEMS IN PHOTOGRAPHY
With permission of the department, an advanced student may pursue selected projects on a group or individual basis. Acceptable for graduate credit with approval. Every semester.

1-6 hrs

**ART 498 I**  SPECIAL PROBLEMS IN ELECTRONIC MEDIA
With permission of the Department, an advanced student may pursue selected projects in electronic media on a group or individual basis. Acceptable for graduate credit with approval. Prerequisites: Permission of Instructor. Semester Offered: Every.

1-6 hrs

**ART 498 J**  SPECIAL PROBLEMS IN GRAPHIC DESIGN INTERNSHIP
Advanced students are accepted into the production studios of participating graphic design companies in the metropolitan region as a training experience. Prerequisite: Permission of the department.

1-6 hrs

**ART 498 K**  SPECIAL PROBLEMS IN PHOTOGRAPHY INTERNSHIP
Advanced students gain invaluable practical experience in a professional setting in the field of art.

1-6 hrs

**ART 499 W**  SENIOR SEMINAR
Capstone course for studio majors in all media. Meets once a week, three hours. Course covers contemporary issues in the arts, and critical theory. Seminar discussions are based on readings, guest speakers, visiting artists, and students' research. Intention of course is to address theoretical and practical issues in studio art practice, and to prepare students for graduation. Multiple papers, class presentation, and class participation are required. This course is writing intensive. Successful completion of the WEPT test required prior to enrolling. Prerequisite: Senior standing in studio. Offered: Winter Semester Annually

3 hrs

**ART HISTORY**

**ART-HIST 300 CJ**  CLUSTER COURSE: AESTHETICISM IN THE ARTS
This cluster course will deal with aesthetic problems in the arts illustrated with specific examples in music, literature and the visual arts. Winter.

3 hrs

**ART-HIST 403**  ADVANCED TYPOGRAPHY
A continuation of ART 203, Introduction to Typography, this course looks at more sophisticated typographic use, using advanced layout and design principles, based on both historical and contemporary typographic design practice. In addition, typographic design theory will be studied as a basis for practice and experimentation. The influence of the computer in contemporary typographic design will be studied through lecture and practice. Typography in motion and time-based media such as websites and multimedia presentations will be examined in how these forms of typography differ from 2-dimensional type usage.

3 hrs
ART-HIST 436 P  INTRODUCTION TO GRAPHIC DESIGN AND DESKTOP PUBLISHING
Students will gain a basic understanding of two-dimensional design, typography, and graphic design. Introductory skills in industry-standard computer design software will be offered. Issues and techniques related to the field of graphic design will be discussed. Restrictions: Does not count towards Studio Art major requirements

4 hrs

ART-HIST 437 P  INTRODUCTION TO DIGITAL IMAGING AND COMPUTER MULTIMEDIA
Students will acquire a basic understanding of lens-based image creation using still and video camera. Introductory skills in industry-standard multimedia software will be used. Issues and techniques related to the field of electronic media will be discussed. Restrictions: Does not count towards Studio Art major requirements.

4 hrs

ART-HIST 438 P  FIRST FRIDAYS: GUIDED SELF STUDY
Students will be exposed to contemporary issues in art through readings, discussions, and audio-visual presentations. Various types of art will be viewed and experienced in professional art venues (galleries, museums, alternative spaces). Independent visual and written projects related to lectures and visits will be required. Restrictions: Does not count towards Studio Art major requirements. Concurrent enrollment in ART436P or ART 437P is required.

4 hrs

ART-HIST 497  SPECIAL STUDIES IN ART HISTORY: INTERNSHIP
Advanced art history students gain invaluable practical experience in a professional setting in the field of art.

1-6 hrs

ART-HIST 497 Q  SPECIAL STUDIES IN ART HISTORY: INTERNSHIP
Advanced art history students gain invaluable practical experience in a professional setting in the field of art. Prerequisite: Permission of the department

1-6 hrs

ART-HIST 498  SPECIAL STUDIES IN ART: INTERNSHIP
Advanced students gain invaluable practical experience in a professional setting in the field of art. Prerequisite: Permission of the department.

1-6 hrs

ARTS AND SCIENCES

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

3 hrs

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

3 hrs

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

3 hrs

A&S 110  SUCCESSFUL RESEARCH: MAKING SENSE OF THE WORLD OF INFORMATION
Do you know what you don't know? Find out in this course as we learn and discuss many of the common things you are expected to know to succeed in college, including the importance of discovering, understanding, analyzing, and using ideas and information in order to achieve academic success and genuine learning. You will learn how to ask meaningful questions, understand the structure and content of information resources, evaluate information, and use information resources as learning tools. The course is not geared to any specific discipline, but is core to success in any discipline. The course is open to all students, but is most beneficial when taken early in a student's academic career.

1 hr

A&S 160  WINE AND CIVILIZATION
Geography of wine growing; the anatomy and physiology of the grapevine; the sociological forces of alcohol in American culture; wine and classical culture; economic aspects of wine and wine growing.

2 hrs
A&S 170  SPECIAL TOPICS
An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

1-4 hrs

A&S 170 C  SPECIAL TOPICS
An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

1-4 hrs

A&S 200  BRITISH LIFE AND CULTURE
A survey of British history and culture from Roman times to the present day. The course includes such topics as British education, the legal system, the economic system, the Common Market, the development of working class movements such as Trade Union Councils, pictorial arts in Britain, dramatic arts, British music, and contemporary communications. The course is taught with lectures from British authorities in the various fields, discussions with lecturers and local faculty, and field trips to places associated with the weekly lectures. Grade for the course is determined by a combination of papers and exams. Offered under the Missouri-London Program in London. Each semester.

3 hrs

A&S 205  CONTEMPORARY EUROPE
An examination of selected political, cultural, economic and social forces shaping Europe today and of how they are related to Europe's past. The course is taught in Europe and employs field trips, lectures by European authorities on the various topics and lectures by the accompanying faculty member. Grades determined by a combination of papers and exams. Summers or Interim.

3-6 hrs

A&S 206  CONTEMPORARY ASIA
An examination of selected political, cultural, economic and social forces shaping Asia today and of how they are related to Asia's past. The course is taught in Asia and employs field trips, lectures by Asian authorities on the various topics and lectures by the accompanying faculty member. Grades determined by a combination of papers and exams. Summers or Interim.

3-6 hrs

A&S 207  CONTEMPORARY LATIN AMERICA
An examination of selected political, cultural, economic and social forces shaping Latin America today, and of how they are related to Latin America's past. The course is taught in Latin America and employs field trips, lectures by Latin American authorities on the various topics, and lectures by the accompanying faculty member. Grades determined by a combination of papers and exams. Offered: Summers or Interim.

3-6 hrs

A&S 208  CONTEMPORARY WORLD CULTURES
An examination of societies and cultures around the world. Students visit one or more countries, where they go on field trips, meet with local experts and students, and learn by studying and doing. Grades are determined by written assignments and practical performance. Offered: Summers or Interim.

3 hrs

A&S 210  CROSS-CULTURAL INTERACTION: EXPERIENCE & UNDERSTANDING
This course focuses on the social and cultural context of interactional patterns. U.S. and international students are paired in academic activities to encourage mutual understanding and self-awareness. They will draw on a variety of resources and learning modalities to examine aspects of their own and one another's societies, cultures, religions, and family relations. Making use of intercultural theories, students will reflect upon and explore cultural myths and stereotypes and develop a general understanding of cultural similarities and differences. Offered: Fall, Winter

3 hrs

A&S 240  ANALYSIS OF MEDICAL TERMINOLOGY
Analyze the structure of medical words and apply this to basic anatomy, physiology and disease processes of the human body, stressing spelling and pronunciation. Offered: Fall and Winter

3 hrs

A&S 280 A  SPECIAL TOPICS
An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

1-4 hrs

A&S 280 P  SPECIAL TOPICS
An undergraduate course designed to deal with a topic which is not available in the regular course offerings.

1-4 hrs

A&S 300 CF  CLUSTER COURSE: AFRICAN/AFRICAN AMERICAN WOMEN AND CREATIVITY

3 hrs

A&S 304 CM  CLUSTER COURSE: BODY IMAGES IN MEDICINE AND THE ARTS
Open to all students, this course focuses on the human body as an object of study in the history and practice of medicine. The class identifies a number of key issues which affect the attitudes that contemporary physicians often have about their patients based upon prevalent attitudes toward the human body in our society. Societal values which shape our ideas about gender, physical appearance, cosmetic surgery, obesity, and genetic abnormalities will be the focus of determining the extent to which these issues may actually affect the education of physicians and choices of medical treatment. The course examines the evolution of these values historically through works of art and recurring themes in literature. the course is interdisciplinary, involving lectures in contemporary medicine, the history of medicine, the history of art, and literature. It satisfies current baccalaureate requirements for interdisciplinary coursework in the humanities. The course will not count toward required courses for the major in art, art history, literature or history. Prerequisite: Junior standing. Offered: Summer 1994.

3 hrs

A&S 305  ETHICS IN AMERICA: THE VIEW FROM THE HEARTLAND
This interdisciplinary course brings national and local specialists together through the media of television case study and personal dialogues for an exploration of the ethical issues facing Americans today. Problems of the corporate world, of academia, of law, of medicine, of media and of the military will be subjected to analysis. With the assistance of experts from the faculty and the community, students will create a paradigm for ethical decision making. Prerequisites: PHILOS 210, PHILOS 222 or consent of the Instructor or Foundations of Social Science. Offered: On demand.
This course will match international students with U.S. students to prepare them to interact more effectively in multilingual and/or intercultural settings. Students learn through readings on cultural theory and cultural relations, in-class small group activities, discussions and lectures, how issues of identity, such as age, sexual orientation, and ethnicity; impact cross-cultural interaction. Papers written for this course will help students integrate theory with previous experience, leading to an understanding of oppression in cross-cultural interaction. This course is a continuation of A&S 210: Cross-Cultural Interaction: Experience and Understanding, which is a prerequisite. Prerequisite: A&S 210 Offered: Fall, Winter

This course provides an introduction to the contexts, theories, and methodologies that undergird African American studies. In addition to substantial time spent covering particular research skills and resources, students will also be introduced to African American culture and the issues related to African American studies from several perspectives: history, literature, sociology, communication studies, and the like. Influences and perspectives from Africa, the Caribbean and South America will also be covered. The course will thus provide a broad background in African American culture and history, an introduction to the methodologies of several disciplines, and discussion of particular contemporary and historical issues such as slavery, segregation and integration, the Civil Rights Movement, Pan-Africanism, Afrocentrism, and current political debates. Prerequisite: None. Offered: Once a year.

An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

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

An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester

An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Offered: Every Semester
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A&amp;S 400 RR</td>
<td>Special Readings/Topics</td>
<td>1-6 hrs</td>
<td></td>
</tr>
<tr>
<td>A&amp;S 400 SA</td>
<td>Special Readings/Topics</td>
<td>1-6 hrs</td>
<td></td>
</tr>
<tr>
<td>A&amp;S 400 SS</td>
<td>Special Readings/Topics</td>
<td>1-6 hrs</td>
<td></td>
</tr>
<tr>
<td>A&amp;S 405</td>
<td>Contemporary Europe</td>
<td>3-6 hrs</td>
<td>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.</td>
</tr>
<tr>
<td>A&amp;S 406</td>
<td>Contemporary Asia</td>
<td>3-6 hrs</td>
<td>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.</td>
</tr>
<tr>
<td>A&amp;S 407</td>
<td>Contemporary Latin America</td>
<td>3-6 hrs</td>
<td>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.</td>
</tr>
<tr>
<td>A&amp;S 419</td>
<td>Natural Sciences For Elementary Schools I</td>
<td>1-5 hrs</td>
<td>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).</td>
</tr>
<tr>
<td>A&amp;S 420</td>
<td>Literature: A Healing Art</td>
<td>3 hrs</td>
<td>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.</td>
</tr>
<tr>
<td>A&amp;S 429</td>
<td>Natural Sciences For Elementary Schools II</td>
<td>2 hrs</td>
<td>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.</td>
</tr>
<tr>
<td>A&amp;S 439</td>
<td>Natural Sciences For Elementary Schools III</td>
<td>2 hrs</td>
<td>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.</td>
</tr>
<tr>
<td>A&amp;S 452</td>
<td>Images Of The Family In Art And Literature</td>
<td>4 hrs</td>
<td>An application of the skills and knowledge gained from the companion weekend and/or weekday courses in this block by means of instructor-approved and guided independent study projects of the student’s own individual or small group choice, focusing on images of the family in literature and art. Each student must select and present four projects (one on each of following faith cultures-Christianity/Judaism, Islam, and one on a topic of their choice) in written, oral and/or audio-visual media. Students meet in groups and individual sessions with the instructors of this block.</td>
</tr>
<tr>
<td>A&amp;S 490 F</td>
<td>Special Topics</td>
<td>1-3 hrs</td>
<td></td>
</tr>
<tr>
<td>A&amp;S 490 L</td>
<td>Special Topics</td>
<td>1-3 hrs</td>
<td></td>
</tr>
<tr>
<td>A&amp;S 490 P</td>
<td>Special Topics</td>
<td>1-3 hrs</td>
<td></td>
</tr>
</tbody>
</table>
A&S 490 SA  SPECIAL TOPICS
1-3 hrs

A&S 490 W  SPECIAL TOPICS
1-3 hrs

A&S 491  INTERNATIONAL INTERNSHIP
Students may participate in structured international internships under the joint supervision of employer and faculty member. They must carry out significant professional responsibilities and whatever additional assignments are determined by the faculty supervisor. The number of credit hours varies with the length of the professional experience. Prerequisite: Junior level or above or consent of instructor. Offered: Every semester.
1-9 hrs

A&S 492  FIELD PRACTICUM IN AGING
Students spend 180-480 contact hours in a field placement with supervision in a community agency or organization which services or advocates for older persons, and keep a journal documenting and reflecting on the practicum activities and experiences particularly as they relate to gerontological theory and research. Offered: WS, SS, FS Restrictions: Written consent of instructor required.
3-8 hrs

CHEMISTRY
CHEM 115  ELEMENTS OF CHEMISTRY I
A one-term course in general chemistry with special emphasis on organic chemistry and biochemistry. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 115L. Three hours of lecture each week, one hour of discussion each week. Fall, Winter.
4 hrs

CHEM 115 L  ELEMENTS OF CHEMISTRY, LABORATORY I
A one-term course in general chemistry with special emphasis on organic chemistry and biochemistry. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 115. One three hour laboratory period each week. Fall, Winter.
1 hr

CHEM 160  CHEMISTRY, SOCIETY, AND THE ENVIRONMENT
This course is intended to offer a survey of chemical and scientific concepts surrounding current issues. The emphasis will be on the application of fundamental chemical knowledge to allow a full understanding of these issues in the context of currently known facts and theories. Through classroom discussion and application of the scientific method, the ramifications of the issues will be examined. Topics will include pollution, the importance of the chemical industry, its responsibilities to society, and other items of current scientific and environmental interest.
3 hrs

CHEM 160 L  LABORATORY FOR CHEMISTRY, SOCIETY, AND THE ENVIRONMENT
This course is offered in support of CHEM 160. It will consist of field activities, experiments, and demonstrations to reinforce the concepts and ideas presented in that course.
1 hr

CHEM 180 P  BASIC CHEMISTRY
A one-semester survey of basic chemistry including: atomic structure, the periodic table, chemical bonding, chemical reactions, and selected topics from organic, polymer and biochemistry. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 181P. Prerequisite: College Algebra or equivalent. This course is equivalent to CHEM 115.
4 hrs

CHEM 181 P  EXPERIMENTAL BASIC CHEMISTRY
A demonstration/laboratory course designed to support and illustrate the concepts presented in CHEM 180P. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 180P. Prerequisite: College Algebra or equivalent. This course is equivalent to CHEM 115L.
4 hrs

CHEM 182 P  SPECIAL PROJECTS IN CHEMISTRY
An independent study course consisting of library work and field work designed to exemplify various applied aspects of chemistry. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 180P. Prerequisite: College Algebra or equivalent.
4 hrs

CHEM 206  HUMAN NUTRITION
Introduction to nutrition for health and wellness and the use of chemical energy in the breakdown and synthesis of biomolecules. Nutrition as it applies to a variety of life situations from infancy to older adults. Learning encompasses elements of anatomy and physiology related to nutrition and health.
3 hrs

CHEM 211  GENERAL CHEMISTRY I
Stoichiometry, gas laws, thermochemistry, atomic structure, molecular shapes and bonding theories. Prerequisites: or corequisite MATH 110 or equivalent Restrictions: corequisite CHEM 211L Offered: Each Term
4 hrs

CHEM 211 L  EXPERIMENTAL GENERAL CHEMISTRY I
Introduction to the laboratory techniques used in studying the chemical properties of substances. Some quantitative techniques are included. Prerequisites: MATH 110 or equivalent Restrictions: corequisite CHEM 211 Offered: Each Term
1 hr
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 212 LR</td>
<td>GENERAL CHEMISTRY II</td>
<td>Introduction to analysis and synthesis. Descriptive chemistry of the more common elements. Three hours per week. Prerequisites: CHEM 211 and CHEM 211L or equivalent (each with a C-or better)</td>
<td>Restrictions: corequisite CHEM 211R</td>
<td>1 hr</td>
</tr>
<tr>
<td>CHEM 212 R</td>
<td>GENERAL CHEMISTRY II</td>
<td>Liquids and solids, solutions, equilibrium, kinetics, electrochemistry and thermodynamics. Introductory course to all advanced work in chemistry. Prerequisites: CHEM 211 and CHEM 211L or equivalent (each with a C-or better)</td>
<td>Restrictions: corequisite CHEM 212LR</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHEM 311</td>
<td>LABORATORY SAFETY AND HEALTH I</td>
<td>An introduction to laboratory safety and health. Topics to be discussed include good laboratory practice; laboratory hazards; safe chemical handling, storage and disposal; first aid; protective equipment; and federal regulations. Prerequisite: CHEM 320 or CHEM 321, or equivalent.</td>
<td></td>
<td>1 hr</td>
</tr>
<tr>
<td>CHEM 320</td>
<td>ELEMENTARY ORGANIC CHEMISTRY</td>
<td>A one-semester course covering both aliphatic and aromatic fields designed to satisfy requirements for dental schools, medical technology programs, six-year medical programs, pharmacy schools, biology majors. Prerequisite: CHEM 211 CHEM 211L and CHEM 212 CHEM 212L or their equivalents (each with a C-or better). Restrictions: corequisite CHEM 320LR</td>
<td></td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>ORGANIC CHEMISTRY I</td>
<td>The two terms (CHEM 321, CHEM 322R) constitute an integrated unit in which the chemistry of aliphatic, aromatic, and some heterocyclic compounds are studied. The study begins with simple monofunctional compounds and ends with polyfunctional natural products. Prerequisites: CHEM 211 CHEM 211L and CHEM 212 CHEM 212L or their equivalents (each with a C-or better). Restrictions: corequisite CHEM 321L</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHEM 321 L</td>
<td>ORGANIC CHEMISTRY LABORATORY I</td>
<td>CHEM 321L introduces the student to basic techniques and procedures in isolation, purification, and characterization of organic compounds and simple reactions used in the organic chemistry laboratory. The student will also be trained in the proper way to write a scientific laboratory report. Prerequisite: CHEM 211 CHEM 211L and CHEM 212 CHEM 212L or their equivalents (each with a C-or better)</td>
<td>Restrictions: corequisite CHEM 321</td>
<td>1 hr</td>
</tr>
<tr>
<td>CHEM 322</td>
<td>ORGANIC CHEMISTRY II</td>
<td>Continuation of CHEM 321. Prerequisites: CHEM 211/211L, CHEM 212/212L and CHEM 321/321L or their equivalents. (each with a C-or better) Restrictions: corequisite CHEM 322L</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHEM 330</td>
<td>ELEMENTARY PHYSICAL CHEMISTRY</td>
<td>An introductory course in the principles of physical chemistry for students who have not had calculus. Prerequisites: CHEM 320, CHEM 322R or CHEM H322R, college physics, and a good background in algebra and trigonometry. Three lecture hours a week.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHEM 341</td>
<td>ANALYTICAL CHEMISTRY I: QUANTITATIVE ANALYSIS</td>
<td>Principles of gravimetric, volumetric, electrolytic, and other methods of analysis. Prerequisites: CHEM 212R or CHEM H214, and MATH 120. Two lectures and six laboratory hours a week. Offered: Every Fall; Winter term in odd years.</td>
<td></td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHEM 341 WI</td>
<td>ANALYTICAL CHEMISTRY II: QUANTITATIVE ANALYSIS</td>
<td>Principles of gravimetric, volumetric, electrolytic, and other methods of analysis. Satisfies writing intensive requirement for the B.A. degree in Chemistry. Prerequisites: CHEM 211 CHEM 211L, CHEM 212 CHEM 212L, and MATH 120 or their equivalents (each with a C-or better). Restrictions: Has passed the WEPT</td>
<td></td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHEM 345 R</td>
<td>INSTRUMENTAL ANALYSIS</td>
<td>An introductory course on the use of instruments for chemical analysis with particular reference to applications of interest to medical technologists and other students in the sciences. Emphasis will be placed on optical, electrochemical and separation methods. Prerequisites: CHEM 320, CHEM 341, or their equivalents. (Does not meet requirements for an A.C.S. certified degree). Two lectures and three laboratory hours each week.</td>
<td></td>
<td>3 hrs</td>
</tr>
</tbody>
</table>
CHEM 367  BIOORGANIC CHEMISTRY
An examination into the current topics at the interface between chemistry and biology. Emphasis will be on the current literature and will include such topics as nucleic acid chemistry, protein chemistry, and carbohydrate chemistry. Prerequisites: CHEM 321 CHEM 321L and CHEM 322 CHEM 322L or their equivalents. (each with a C-or better) Offered: Fall
3 hrs

CHEM 382  INORGANIC AND ORGANIC SYNTHESIS
A number of inorganic, organic, and organometallic compounds will be prepared using a variety of synthetic techniques. Prerequisites: CHEM 321 CHEM 321L and CHEM 322 CHEM 322L or their equivalents. (each with a C-or better) Offered: Fall
2 hrs

CHEM 387  ENVIRONMENTAL CHEMISTRY I
A survey of how chemical principles can be applied to the environment. Included will be topics in aquatic chemistry, atmospheric chemistry and chemistry of the geosphere and soil. Prerequisites: CHEM 320 OR CHEM 322. Offered: Winter Semester.
3 hrs

CHEM 388  ENVIRONMENTAL CHEMISTRY II
Discussion of selected topics in advanced environmental chemistry, such as environmental toxicology, environmental risk, the chemistry of hazardous wastes and their treatment, and environmental analytical chemistry. Prerequisite: CHEM 387.
3 hrs

CHEM 395  DIRECTED READINGS IN CHEMISTRY
Intensive readings in areas of joint interest to the enrolled student and the cooperating faculty member. Readings may not duplicate or substitute for current course offerings. Prerequisites: CHEM 320 CHEM 320L or CHEM 321 CHEM 321L and CHEM 322 CHEM 322L or their equivalents. (each with a C-or better). Restrictions: permission of supervising faculty member Offered: By Arrangement
1-3 hrs

CHEM 399  INTRO TO RESEARCH
Special problems to introduce undergraduate chemistry majors to research methods. A comprehensive written report is required and a copy of the report is to be retained in the chemistry office. May be taken only after consultation with a member of the chemistry staff. Prerequisite: CHEM 212R or CHEM H214. Semester offered: Every semester
1-3 hrs

CHEM 410  CHEMICAL LITERATURE
A systematic introduction to the efficient use of the chemical literature. Topics will include both classical search methods and computer search methods. Prerequisites: CHEM 320 CHEM 320L or CHEM 321 CHEM 321L and CHEM 322 CHEM 322L or their equivalents. (each with a C-or better). Offered: Fall
1 hr

CHEM 431  PHYSICAL CHEMISTRY I
A first course in physical chemistry having a calculus base. This course emphasizes thermodynamics with an introduction to the basic principles of quantum mechanics. Prerequisites: MATH 210 and MATH 220; and PHYSICS 220 or preferable PHYSICS 250 Restrictions: Prerequisite or corequisite MATH 250 Offered: Fall
3 hrs

CHEM 432  PHYSICAL CHEMISTRY II
A second course in physical chemistry having a calculus base. This course emphasizes the quantum mechanics description of atoms and molecules, molecular spectroscopy, statistical mechanics, and kinetics. Prerequisites: MATH 210, MATH 220 and MATH 250; and PHYSICS 220 or preferably PHYSICS 250; and CHEM 431 (each with a C-or better). Restrictions: corequisite CHEM 437WI Offered: Winter
3 hrs

CHEM 434  MOLECULAR SPECTROSCOPY
A theoretical introduction to molecular spectroscopy and its relation to structure. Electronic, vibrational and rotational spectra of chemical systems will be discussed. Prerequisite: CHEM 432 or consent of instructor. Offered: Fall term.
3 hrs

CHEM 437 WI  EXPERIMENTAL PHYSICAL CHEMISTRY I
Experimental methods in physical chemistry. One hour lecture and six hours laboratory each week. Satisfies writing intensive requirements for the B.A. or B.S. degree. Prerequisites: MATH 210, MATH 220 and MATH 250; and PHYSICS 220 or preferably PHYSICS 250; and CHEM 431 (each with a C-or better). Restrictions: Corequisite CHEM 432 and has passed the WEPT prior to enrollment Offered: Winter
3 hrs

CHEM 442 R  ANALYTICAL CHEMISTRY II: INSTRUMENTAL ANALYSIS
A continuation of CHEM 341. The experimental and theoretical aspects of optical and electrochemical, chromatographic and other physicochemical methods of analysis. Prerequisite: CHEM 341. Prerequisite or corequisite: CHEM 432. Two lectures and four hours laboratory a week. Winter.
3 hrs

CHEM 451 R  INORGANIC CHEMISTRY
Modern concepts and theories of inorganic chemistry. Prerequisite or corequisite: CHEM 432. Three lecture hours each week. Winter.
3 hrs

CHEM 471  INTRODUCTION TO POLYMER CHEMISTRY
Survey of organic and inorganic monomers and polymers; the occurrence, synthesis, structures and properties of natural and synthetic polymers; discussion of general properties of plastics, elastomers, fibers, resins, and plasticizers. Three lecture hours a week. Prerequisites: CHEM 432 (C-or better) Offered: Fall
CHEM 480  COMPUTER APPLICATIONS TO CHEMICAL PROBLEMS
An intense course in Fortran programming and its uses in chemical problems related to theory and experimentation. Emphasis will be placed on the mathematical structures of chemical problems and the coding of those problems into Fortran. No previous programming experience is required. Prerequisites: CHEM 320 or CHEM 322R.

3 hrs

CHEM 490  SPECIAL TOPICS IN CHEMISTRY
This course will focus on an area of chemistry of contemporary significance. The amount of credit is to be determined by arrangement with the department. May be repeated for credit when the topic varies but no more than three hours of credit may be applied to major course requirements. Prerequisites: Consent of instructor. Prerequisite or corequisite. CHEM 431. On demand.

1-3 hrs

CHEM 495  DIRECTED READINGS IN CHEMISTRY
Intensive readings in areas of joint interest to the enrolled student and the cooperating faculty member. Readings may not duplicate or substitute for current course offerings. Prerequisites: CHEM 432 and permission of the cooperating faculty member. By arrangement.

1-3 hrs

CHEM 499  SENIOR RESEARCH
The student is given an original research problem and will be held responsible for all previous experience in working toward its solution. A well-written, comprehensive, and well-documented research report is required, and a copy of the report is to be retained in the Chemistry department. Prerequisites: CHEM 432 and consent of a member of the Chemistry staff. Credit arranged.

1-9 hrs

CHEM H212  GENERAL CHEMISTRY I
Stoichiometry, atomic structure, states of matter, thermodynamics, equilibrium and kinetics. Prerequisite or corequisite: MATH 120. Corequisite: CHEM 212L three hours lecture each week. Offered: Each term.

3 hrs

CHEM H212 LR  EXPERIMENTAL GENERAL CHEMISTRY II-HONORS
An alternative laboratory experience to CHEM 212LR, for those students gifted in laboratory skills and interested in working in a research lab setting. By arrangement. Winter.

1 hr

CHEM H321  HONORS: ORGANIC CHEMISTRY I

3 hrs

CHEM H321 L  ORGANIC CHEMISTRY LABORATORY I - HONORS

1 hr

CHEM H322 LR  ORGANIC CHEMISTRY LABORATORY II-HONORS
A more intense version of CHEM 322L. See course description for CHEM 322L. Prerequisite: CHEM 321L.

2 hrs

CHEM H322 R  HONORS: ORGANIC CHEMISTRY II

3 hrs

CHINESE

CHINESE 110  ELEMENTARY CHINESE I
Introduction to the sound system of modern Chinese, aural comprehension, oral expression, basic structural patterns, writing systems. Fall.

5 hrs

CHINESE 120  ELEMENTARY CHINESE II

5 hrs

CHINESE 211  SECOND YEAR CHINESE I
Introductory readings of colloquial Chinese, literature, conversation, simple composition, and comparison between written and spoken styles in modern Chinese. Prerequisite: CHINESE 120 or equivalent. Fall.

3 hrs

CHINESE 221  SECOND YEAR CHINESE II
Readings of modern Chinese with emphasis on expository writings, analysis of syntactic structure, composition and translation. Prerequisite: CHINESE 211 or equivalent. Winter.

3 hrs

CHINESE 280  SPECIAL INTERMEDIATE CHINESE TOPICS I
Instruction of Chinese on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed.

2-4 hrs

CHINESE 290  SPECIAL INTERMEDIATE CHINESE TOPICS II
Continuation of CHINESE 280. May not be repeated for credit. As needed.

2-4 hrs

CHINESE 380  SPECIAL TOPICS: COMPOSITION AND CONVERSATION
Treatment of a particular genre or area of literature in Chinese normally not offered through regular courses. May be repeated for credit when the topic changes. Prerequisite: Permission of the instructor. On demand.

1-3 hrs

CLASSICAL AND ANCIENT STUDIES

CLASSICS 310  FOUNDATIONS OF WORLD LITERATURE I
An investigation of the great ideas that inspired humankind in different cultures through the ages. These ideas will be explored as they are expressed in literature. Literary works of different ages and different cultures are included. Also offered as WLD-LIT 210. Offered: On Demand

3 hrs

CLASSICS 300  SPECIAL TOPICS
A course about a selected field, genre or individual figure from the ancient world that is not part of the program's regular offerings. May be repeated for credit.

1-3 hrs

CLASSICS 300 A  SPECIAL TOPICS
A course about a selected field, genre or individual figure from the ancient world that is not part of the program's regular offerings. May be repeated for credit.

1-3 hrs

CLASSICS 300 CB  CC: WOMEN IN THE ANCIENT WORLD
This course focuses on the history, representation, literature, social lives, and political roles of women in ancient civilization including Egypt, Mesopotamia, the Biblical World, Greece, and Rome. It integrates methodologies from history, art history and archaeology, literary studies, and women's studies.

3 hrs

CLASSICS 300 CR  ROMAN REVOLUTION: HISTORY AND CULTURE FROM GRACCI TO AUGUSTUS
The period of Roman history from the revolution initiated by the Gracchi to the demise of the Republic and the establishment of the Principate under the Augustus will be studied. The course begins with the Scipionic Circle under whose leadership foreign imperialism, domestic factionalism, and the influx of Greek culture increased. Political, social and cultural developments which culminated in the violent death of the old system will be traced. We will also show how Augustus kept the past alive to make his new government acceptable to the tradition-loving Romans. Students will read the works of such writers as Terence, Cato, Polybius, Cicero, Caesar, Sallust, Catullus, Horace, Virgil, and Ovid, whose works cover the important genres of Roman literature-new comedy, rhetoric, satire, history, epic, pastoral and lyric poetry.

3 hrs

CLASSICS 300 CS  CC: CLIO AND THE OTHER MUSES
This course focuses on the history, art, architecture, literature, and culture of Athens in the 5th Century BCE. Course readings will include primary literary and historical sources such as lyric poetry, comedy and tragedy, philosophy, and historical writings.

3 hrs

CLASSICS 300 CY  CC: ANCIENT WORLD/CINEMA
This course will explore the tradition of depicting the ancient Mediterranean world in film from the early silent era to the present. Topics to be covered include the ways that filmmakers respond to literary and historical sources from the ancient world, interact with the artistic tradition of films about the ancient world, the relation of these films to other works by the same creative personnel (directors, actors, writers, producers, etc.), and the political and cultural contexts in which the films were released.

3 hrs

CLASSICS 300 CZ  CC: ARCHAEOLOGY OF ANCIENT DISASTERS
Remarkable human achievements are revealed by archaeological research, but the human past was frequently shaped as well by disasters of natural and human origin. Drawing on case studies that include data from the geosciences, archaeological excavations, and historical sources, this class examines how earth processes, the biosphere, and human cultural behavior were all sources of catastrophe. We begin with the geological context of disaster, including earthquakes, volcanic eruptions, climate change, and soil depletion. Next, we examine how ancient societies responded to disease, an ever present threat from the biological environment. Finally, we look at how ancient human groups were changed by stresses of cultural origin, including overpopulation, depletion of vital resources, and warfare. The study of ancient disasters not only gives us a wider understanding of human history, it may offer lessons for coping with future catastrophes. Also cross listed as GEOLOGY 326CZ. Offered: On Demand

3 hrs

CLASSICS 300 D  SPECIAL TOPICS
A course about a selected field, genre or individual figure from the ancient world that is not part of the program's regular offerings. May be repeated for credit.

1-3 hrs

CLASSICS 310 WI  ANCIENT PHILOSOPHY
A survey of the central figures of classical philosophy: the pre-Socratics, Socrates, Plato, Aristotle, the Stoics, the Epicureans and other philosophers of antiquity. The contributions of major philosophers to the development of science, religion, and social and political theories are studied. Also listed as PHILOS 310WI. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent and successful completion of the WEPF.

3 hrs
CLASSICS 318  BIBLE AS LITERATURE
A critical study of the major portions of the Old and New Testaments and the Apocrypha, with special attention to the development of literature from oral tradition, the literary genres, themes and archetypes represented in the collection, and the diction and style which have influenced later literature. Consideration also of the relation of Biblical literature to the historical, religious, and cultural milieu of the ancient Near East. Also listed as ENGLISH 318.

3 hrs

CLASSICS 319  MYTH AND LITERATURE
A study of classical myth including readings from Homer to Ovid, analysis of selected myths in later literature, art, and music, and a study of contemporary definitions and approaches to myth. Also listed as ENGLISH 319.

3 hrs

CLASSICS 340 A  CLASSICAL LITERATURE IN TRANSLATION
This course will focus on representative authors and works from the Greek and Roman Classical periods, such as Homer, Sophocles, Euripides, Aeschylus, Aristophanes, Plato, the Greek Lyric Poets, Virgil, Horace, Juvenal, Ovid and Plautus. Also listed as ENGLISH 340A.

3 hrs

CLASSICS 349  INTRODUCTION TO PREHISTORIC AND CLASSICAL ARCHAEOLOGY
An introduction to archaeological research methods that traces human origins and cultural development from the earliest fossil evidence to the threshold of written history and civilization. This class emphasizes the evolutionary and cultural developments that allowed our ancestors to colonize the continents and develop lifeways involving hunting and gathering, farming and urbanism.

3 hrs

CLASSICS 376  ANCIENT CONCEPTS OF THE HERO
This course traces the ancient concept of the hero by reading selected ancient works by authors such as Homer, Thucyides, Livy, Plutarch, Caesar, Tacitus, and Sallust. Students will also examine the impact of the ancient concept of the hero on modern literature and art. Also listed as ENGLISH 376.

3 hrs

CLASSICS 430  PLATO
Selected dialogues of Plato are studied with a view to understanding Plato's philosophy and its position in the world of Greece and antiquity. Plato's philosophy is also examined with reference to his place in the Western tradition and in modern philosophy. Also listed as PHILOS 430. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

3 hrs

CLASSICS 431  ARISTOTLE
Selected portions of Aristotle's works on logic, metaphysics, science, ethics, politics, and poetics are studied with a view to understanding Aristotle's philosophy and its position in the world of Greece and antiquity. Aristotle's philosophy is examined with reference to its place in the Western tradition and in modern philosophy. Also listed as PHILOS 431. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

3 hrs

CLASSICS 446  MYTH AND RITUAL
"Myth" and "ritual" have long been fundamental categories in the study of religion. This course will briefly survey some of the major theories and approaches to the study of myth and ritual from the Enlightenment to the present. Will not only trace the shifting meanings of "myth" and "ritual," but will critically evaluate the utility of diverse approaches to the study of religious phenomena designated by these terms. Reading will include theoretical works, as well as selected case studies. Also listed as HISTORY 446.

3 hrs

CLASSICS 449  ARCHAEOLOGY AND BIBLICAL HISTORY
An examination of ancient Israel as she emerges from the ruins of the past, both lapidary and literary. Through a study of the "mute documents," artifacts man-made (storied cities, household utensils, inscribed shards from Jericho to Jerusalem) we gain an insight indispensable for Biblical studies, for ancient Near Eastern history. Also listed as HISTORY 449.

3 hrs

CLASSICS 470  ANCIENT EGYPT
This course describes the political, social and cultural evolution of ancient Egypt from pre-dynastic times, with major emphasis upon the Old, Middle, and new Kingdoms (especially the 18th dynasty and the reign of Akhenaton). Also listed as HISTORY 470.

3 hrs

CLASSICS 470 P  ANCIENT WORLD: THE SOCIAL HISTORY OF THE ANCIENT WORLD
The optional four-credit-hour component (modified independent study) will concern the social aspects of these civilizations, i.e., their daily lives. Readings and audiovisual aids will be used to help the student who will be expected to choose one aspect of each civilization, such as women, slavery, merchants, education, medicine, etc., and write a five-page paper about that topic for each period, i.e., Mesopotamia, Egypt, Greece and Rome. Also listed as HISTORY 470P.

4 hrs

CLASSICS 471  ANCIENT GREECE
This course begins with a survey of the pre-classical Minoan and Mycenaean civilizations and then describes the rise of prominent Greek city-states (with particular emphasis upon the evolution of Sparta and the political, social and cultural contributions of Athens). The course concludes with the rise of Macedon and Alexander's conquests and significance. Also listed as HISTORY 471.

3 hrs

CLASSICS 471 P  ANCIENT WORLD: THE POLITICAL STRUCTURE OF THE ANCIENT WORLD
The four-hour lecture period on weeknights will emphasize the historical aspects of the ancient civilizations. The lectures will be chronologically organized to focus upon their evolution from their rise to their collapse. Also listed as HISTORY 471P.

4 hrs
COMMUNICATION STUDIES

COMM-ST 110  FUNDAMENTALS OF EFFECTIVE SPEAKING AND LISTENING
An introduction to the dimensions of effective platform speaking with special emphasis on developing critical listening skills. Lecture, performance, and discussion. Every semester.

3 hrs

COMM-ST 140  PRINCIPLES OF COMMUNICATION
An interdisciplinary introduction to the study of contemporary communication studies including a consideration of intrapersonal, interpersonal and public communication. Lecture. For non-majors only. Offered: Fall or winter.

3 hrs

COMM-ST 212  ARGUMENTATION AND DEBATE
A study of the nature of logical discourse generated through the preparation and presentation of oral argument within the framework of the debate format. Lecture, performance and discussion. Offered: Fall and winter.

3 hrs

COMM-ST 213  ARGUMENTATION AND CRITICAL THOUGHT
An introduction to the theory and application of argument construction. The course is designed to examine the fundamental strategies of critical thinking and to help understand the relationships among critical thought and argumentation development and refutation. This course is designed for application across many fields and is not specific to debate or oral argument. Lecture, discussion. Prerequisite: None. Offered: Fall.

3 hrs

COMM-ST 220  INTRODUCTION: MODERN COMMUNICATIONS MEDIA
A comprehensive survey of the content, structure and control of the communications media in American society—newspaper, motion pictures, radio and television; providing an informational frame of reference that will enable discerning students to formulate and apply useful critical concepts in evaluating America's media environment. Every semester.

3 hrs

COMM-ST 230  INTRODUCTION TO FILM STUDIES
The course is an introduction to the study of film as an art form and industrial practice. Students are introduced to the basic terms and concepts of film theory, including theories of film editing and mise-en-scene while becoming familiar with the basic "canon" of major films and directors that form the foundations for the academic field of film studies. Offered: Fall.

3 hrs

COMM-ST 250  INTRODUCTION TO FILM AND VIDEO METHODS
This course is a comprehensive examination of film and video production methods and visual literacy. It is the foundation and prerequisite for all film, video, and new media production courses. It is also the professional media production overview course for advertising, public relations, and other creative, non-technical communications careers. Prerequisite: None. Offered: Spring, Fall.

3 hrs

COMM-ST 254 P  COMMUNICATION COMPETENCE: THEORY AND PRACTICE
An introduction to the discipline of communication. A core set of issues is investigated in three major areas of the field: interpersonal communication, small group communication and public speaking. The course design is based on the premise that the development of communication skills involves two important factors: (1) understanding the theoretical principles underlying effective communication behavior and (2) practical application of those principles in various communicative exercises. Offered: Summer.

4 hrs

COMM-ST 260 P  INTRODUCTION TO WEB COMMUNICATIONS
This four credit hour web-based multimedia course will examine the process of critically evaluating information delivered on the Internet. It is designed as an introduction for adults and students who use Internet information for work and/or school. The process of critically evaluating Internet information will be described in four modules: traditional evaluation techniques; searching and researching strategies; Internet evaluation techniques and Internet evaluation resources.

4 hrs
**COMM-ST 265 MEDIA PHOTOIMAGING**
An introduction to the production and manipulation of photographic images as they are applied in the print publishing medium, multi-image, and multimedia communications. Photography will be examined as a fundamental medium for the study of visual communication and the techniques of creating specifically meaningful images. This course will provide an essential familiarity with the terminology, concepts, practices, and process variables involved in photographic direction and production supervision, and will also introduce the basics of image composition, manipulation, and quality control. Offered: Summer & Fall
3 hrs

**COMM-ST 303 WI INTRODUCTION TO JOURNALISM**
Introduction to the styles and techniques of reporting and writing basic news through assignments in straight news, features and in-depth stories. Exposure to the history and principles of American journalism. Practical application in writing news and news feature articles. Also offered as ENGLISH 303WI.
3 hrs

**COMM-ST 308 INTRODUCTION TO THE STUDY OF HUMAN COMMUNICATION**
This course serves to introduce students to the basic theories, perspectives and methodologies used (historically and currently) in the study of speech, interpersonal and mass communication.
3 hrs

**COMM-ST 308 WI INTRODUCTION TO THE STUDY OF HUMAN COMMUNICATION**
This course serves to introduce students to the basic theories, perspectives and methodologies used (historically and currently) in the study of speech, interpersonal and mass communication. Writing Intensive course.
3 hrs

**COMM-ST 311 RADIO & TELEVISION PERFORMANCE**
A study of the specialized radio and television performing and operating situations and techniques simulated and evaluated in studio sessions. Lecture, discussion and performance. Prerequisite: None.
3 hrs

**COMM-ST 312 ADVANCED PUBLIC SPEAKING**
Advanced study of rhetorical theory and its application to the presentation and criticism of public discourse. Prerequisite: COMM-ST 110. Offered: Fall & Winter.
3 hrs

**COMM-ST 312 P ADVANCED PUBLIC SPEAKING**
Advanced study of rhetorical theory and its application to the presentation and criticism of public discourse. Prerequisite: COMM-ST 110. Offered: Fall & Winter.
3 hrs

**COMM-ST 314 WI REPORTING**
A seminar of practical application in advanced reporting. Assignments to cover news events and to pursue in-depth news reports on the campus and off. Work is turned in on deadline and critiqued by the instructor. Also offered as ENGLISH 314. Prerequisite: ENGLISH 110, ENGLISH 225, and successful completion of the WEPT.
3 hrs

**COMM-ST 317 PERSUASION**
A study of the rhetorical, psychological and ethical principles of influencing and controlling individuals and groups, and of the methods of adapting to various attitudes and audiences through the preparation, presentation and evaluation of persuasive speeches. Lecture, discussion and performance. Prerequisite: COMM-ST 110. Offered: On demand.
3 hrs

**COMM-ST 320 MASS MEDIA, CULTURE AND SOCIETY**
A critical exploration of the role of mass media (and its reception) in the social construction of reality. The course employs theoretical, analytical and empirical approaches derived from multidisciplinary sources, particularly "critical theory" semiology, post-structuralism, psychoanalysis and ethnography. Term paper required. Prerequisite: Offered: Every semester.
3 hrs

**COMM-ST 322 ORAL PERFORMANCE IN SPEECH COMMUNICATION**
This course is designed to develop and strengthen oral communication for students pursuing careers in pre-law, media, human resources, and education as well as increase the skills of potential professional speakers. The student will learn to develop emotional, vocal, physical, and non-verbal skills through an investigation of poetry, prose, and non-fiction literature. Through the process of reading, studying, investigating, rehearsing, and performing literary and nonliterary works, the students will learn to pay particular attention to the voice embodied in a given text and the cultural and social context within which that voice speaks. Prerequisite: COMM-ST 110. Offered: Fall and Winter.
3 hrs

**COMM-ST 331 WI MASS MEDIA IN AMERICA**
Writing intensive. Social History of the development of mass media, radio, film and television, from Marconi’s first experiments to the present. Emphasis placed on relationship of American culture and American media. Term paper required. Prerequisite: Successful completion of the WEPT. Offered: Fall.
3 hrs

**COMM-ST 339 FILM THEORY AND CRITICISM**
The course serves to locate the film medium within the study of human communication while developing an understanding of the effects of film on the individual and society with an emphasis on understanding the film medium as both an art form and a reflection of a social system with national, cultural & sub-cultural components. Term paper required. Offered: Spring
3 hrs

**COMM-ST 341 RHETORICAL THEORY AND CRITICISM**
An analysis of significant public discourse within the context of social protest and political rhetoric with attention to applying methods of communication criticism in evaluating the effectiveness of persuasive advocacy aimed at social change. Fall.
3 hrs
COMM-ST 341 WI  RHETORICAL THEORY AND CRITICISM
Writing intensive. An analysis of significant public discourse within the context of social protest and political rhetoric with attention to applying methods of communication criticism in evaluating the effectiveness of persuasive advocacy aimed at social change. Prerequisite: COMM-ST 308 and successful completion of the WEPT required for admission.

3 hrs
COMM-ST 343  GROUP DYNAMICS
A study of strategies and communication relationships unique to non-dyadic situations, with an emphasis on the integral structure of leadership, roles, norms and task functions. Discussion. Offered: On demand.

3 hrs
COMM-ST 344  COMMUNICATION IN ORGANIZATIONAL SETTINGS
An examination of the major elements of interpersonal, group, and oral communication competence essential to human interaction in organizational settings. The course focuses on developing communication competencies and increasing theoretical understanding of the communication process within the organizational context. Prerequisite(s): COMM-ST 110 or COMM-ST 308 and WEPT.

3 hrs
COMM-ST 344 WI  COMMUNICATION IN ORGANIZATIONAL SETTINGS
An examination of the major elements of interpersonal, group, and oral communication competence essential to human interaction in organizational settings. The course focuses on developing communication competencies and increasing theoretical understanding of the communication process within the organizational context. Prerequisite(s): None.

3 hrs
COMM-ST 351 WI  FUNDAMENTALS OF WRITING FOR THE MEDIA
Writing intensive. Analysis of individual differences and common characteristics of copy for eye and ear, with emphasis on the application of both verbal and visual imagery in the process of communicating the writer’s ideas and intentions. Weekly written assignments and critical analysis of the student’s work. Prerequisites: COMM-ST 110 and successful completion of the WEPT. Offered: Fall and winter.

3 hrs
COMM-ST 351 WI  FUNDAMENTALS OF WRITING FOR THE MEDIA
Writing intensive. Analysis of individual differences and common characteristics of copy for eye and ear, with emphasis on the application of both verbal and visual imagery in the process of communicating the writer’s ideas and intentions. Weekly written assignments and critical analysis of the student’s work. Prerequisites: COMM-ST 110 and successful completion of the WEPT. Offered: Fall and winter.

3 hrs
COMM-ST 363  RADIO PRODUCTION I
A study of the techniques of producing audio material for use in radio, in concerts, on film, on television and in the recording studio. Lecture, discussion, and laboratory. Prerequisite: COMM-ST 308. Offered: Fall.

3 hrs
COMM-ST 373  INTERMEDIATE MEDIA PRODUCTION
Emphasis on digital production and non-sync 16mm film. Students produce, direct and edit a significant narrative, documentary or experimental project. Lecture, discussion and laboratory. Prerequisite: COMM-ST 250. Offered: Spring

3 hrs
COMM-ST 376  HISTORY OF THE FILM INDUSTRY
A history of the development of the American film industry from 1900 to the end of the studio era. The course will stress such issues as studio production, censorship, the economics of production and the selling of mass culture through the film medium. Term paper required. On demand.

3 hrs
COMM-ST 377  INTERPERSONAL COMMUNICATION
An intensive analysis of the dimensions of interpersonal and interpersonal communication designed to identify the philosophies and methods which underwrite effective human communication. Lecture and discussion. Prerequisite: COMM-ST 308. Offered: Fall and winter.

3 hrs
COMM-ST 377 WI  INTERPERSONAL COMMUNICATION
Writing intensive. An intensive analysis of the dimensions of intrapersonal and interpersonal communication designed to identify the philosophies and methods which underwrite effective human communication. Lecture and discussion. Prerequisite: Successful completion of the WEPT (effective FS93). Offered: Fall and winter.

3 hrs
COMM-ST 378  COMPUTER-MEDIATED COMMUNICATION
Examination of the nature of human communication on the Internet. Design function, content innovations of computer mediated communication discussed, with emphasis on technology as a means of interpersonal communication. Research, essays, and participation in online environment required. Prerequisite: None. Offered: On demand

3 hrs
COMM-ST 378 WI  COMPUTER MEDIATED COMMUNICATION
Examination of the nature of human communication on the internet. Design, function, content innovations of computer mediated communication discussed, with emphasis on technology as a means of interpersonal communication. Research, essays, and participation in online environment required. Prerequisite: Successful completion of the WEPT EXAM Restrictions: Writing Intensive. Successful completion of the WEPT Exam required. Offered: Fall 2003.

3 hrs

COMM-ST 380  CONTEMPORARY MEDIA TOPICS

3 hrs

COMM-ST 382  ADVANCED MEDIA TOPICS
Variable content: Media Arts and Media Studies Topics will be addressed in this course including film/video production and post-production techniques, and analytical evaluation of recent trends in media. Prerequisite: Topic Dependent Restrictions: Approval of instructor Offered: Winter

3 hrs

COMM-ST 384  DOCUMENTARY FILM
The purpose of this course is to familiarize students with the history, terminology, film making techniques, film makers and cultural/societal influences of documentary film. Five distinguishing characteristics will be examined in terms of 1) subjects, 2) purposes, points of view, or approaches, 3) forms, 4) production methods and techniques and 5) experiences they offer to audiences. Prerequisites: None. Offered: Every winter.

3 hrs

COMM-ST 385  DOCUMENTARY PRODUCTION
This course is designed to familiarize students with the basics of documentary production from an artistic, ethical, and practical results-oriented perspective. Prerequisites: COMM-ST 250 or COMM-ST 270 Offered: Fall

3 hrs

COMM-ST 390  FORENSIC ACTIVITIES
Participation in the intercollegiate forensic program. A practicum in debate, discussion, oratory and other forensic activities. Prerequisite: Consent of instructor. Offered: Summer, fall, winter.

1-4 hrs

COMM-ST 391  THE WORLD(S) OF ALFRED HITCHCOCK
The course offers an historical study of the film art of Alfred Hitchcock. The course gives special attention to the director's work in the silent cinema of the U.K., Hitchcock's early major British sound films, his arrival in the United States, his major World War II propaganda films, the directors maturing into a major influence on world cinema in the 1940s, and Hitchcock's "masterworks" of the 1950s-1960s. Offered: On Demand

3 hrs

COMM-ST 392  GREAT DIRECTORS OF FOREIGN FILM
The course is an introduction to the major films and directors of the international cinema. Particular attention will be given to the influence of German Expressionism, Italian "Neo-Realism," the "French New Wave, the "New German Cinema" of the 1970s, post-Franco Spanish cinema, and the national cinemas of South America, India, China, and Japan. Offered: On Demand

3 hrs

COMM-ST 393  HISTORY OF THE HOLLYWOOD MUSICAL
The course offers an historical survey of the development of the film musical as a major Hollywood film genre from the introduction of the sound film in 1927 to current manifestations of the genre. The course gives particular attention to the development of the studio musicals of the 1930s, the role of the musical during World War II, the "Golden Age" of the MGM musical in the 1950s-60s, and the effects on the traditional Hollywood musical of the Vietnam Era social upheavals. Offered: On Demand

3 hrs

COMM-ST 394  THE WORLD OF "FILM NOIR"
The course offers an historical survey of the development of "film noir" as a major film genre. The course examines the major characteristics that define "film noir" and offers an introduction to the historical roots of this genre in German Expressionism, as well as the social and political context for the development of "film noir" as a Hollywood studio genre in the late 1940s. Particular attention given to the social/ political conditions of the 1950s that contributed to both the rise and decline in popularity of "film noir" during the Cold War, as well as the film genre's revival in the "neo-noirs" of the 1970s. Offered: On Demand

3 hrs

COMM-ST 400  SPECIAL STUDIES
(A-N) This is an upper-level course on a subject which is not a part of the regular department offering. The course results from one or more of the following: (1) the expressed desire of students (2) the broadened or refocused scholarship of a member of the communication studies faculty (3) the temporary presence of a scholar whose specialization is not reflected in the department's regular offerings (4) the conclusion by the department that the course meets a community need (5) the effort of the Communication Studies faculty to provide an interdisciplinary approach to an era or topic. The course is experimental in the sense that it is a "one-time" offering with the potential of repetition or modification, depending upon student, faculty and community response. On demand.

1-3 hrs

COMM-ST 400 CB  CC:THE AFRICAN DIASPORA IN THE ARTS AND CULTURE
This new cluster course will examine the expression of certain aspects of African culture in the African Diaspora. Black culture in the area now popularly termed "The Black Atlantic," and in particular Western Africa, the Caribbean and certain parts of South and North America, will be examined. Special attention will be paid to visual and material culture, feminist and anti-apartheid literature, and religion and spirituality. African culture is a multi-layered and complex phenomenon. An understanding of African diasporic culture involves an analysis of the effects of historical and sociological movements, the interpretation of written culture and the effects of Africa's response to colonial intrusion. Questions concerning the transmission and transformation of African cultures will be addressed by a close investigation of visual and material culture, literary texts, and cosmological constructions of African peoples. Students will be exposed to methodologies garnered from the Arts, Literature and Religious Studies. Offered: Fall Restrictions: Sophomore or above

3 hrs

COMM-ST 400 CT  CLUSTER COURSE: HEALING AND CULTURAL DIVERSITY

3 hrs
COMM-ST 400 G  SPECIAL STUDIES IN COMMUNICATION STUDIES
1-3 hrs

COMM-ST 400 M  SPECIAL STUDIES IN COMMUNICATION STUDIES
1-6 hrs

COMM-ST 400 N  SPECIAL STUDIES
1-3 hrs

COMM-ST 400 Q  SPECIAL STUDIES IN COMMUNICATION STUDIES
1-3 hrs

COMM-ST 400 W  SPECIAL STUDIES IN COMMUNICATION STUDIES
1-3 hrs

COMM-ST 403 CE  CC: RADICAL CHANGES SINCE 1945
This cluster course will focus on modernism, post-modernism and expressionism in the visual arts and literature since World War II. Lectures address intellectual movements such as existentialism and formalism and cultural development such as increased impact of technology and mass media in contemporary society. By focusing on these movements, we hope to provide an integrated view of the literature and visual arts of the period and to draw upon analogous developments in contemporary architecture, music, philosophy and film. This course is offered as a cluster with ENGLISH 300CE.
3 hrs

COMM-ST 421 P  MULTIMEDIA & NEW MEDIA STREAMING
This course is designed to teach students the technology of streaming multimedia on the web and analyze the components of interactivity on the web. Students will examine the process of streaming, as well as the various advantages and disadvantages of streaming. Students will study the hardware, software, and technology involved in the different types of streaming media. Prerequisites: COMM-ST 100, COMM-ST 105P or equivalent is recommended.
3 hrs

COMM-ST 422 P  NEW MEDIA WRITING FOR THE WEB
This course is designed to teach students new media writing and the technology of reporting for online publications. Students will analyze the components of online writing, including the design, creation, and transfer of online digital media. Students will be introduced to digital formats and production tools. Students will examine the technology of writing for the web and the particular needs of new media writing for users of the web, techniques to transfer writing electronically, and how to use resources on the web for online reporters. Prerequisites: COMM-ST 100, COMM-ST 105P or equivalent is recommended.
3 hrs

COMM-ST 423 P  SHOOTING DIGITAL VIDEO FOR THE WEB AND NEW MEDIA
This course is designed to teach students the fundamental concepts of digital video, with special consideration given to shooting the new media and the web. Students will learn the process of digital video, the types of file formats, technical considerations of displaying video on the web, and technical features of the digital video camera. This class will enable students to maximize the use of video in various new media digital formats (CD-ROM, DVD, etc.), as well as its use on the web. Prerequisites: COMM-ST 100, COMM-ST 105P or equivalent is recommended.
3 hrs

COMM-ST 424 P  WEB RADIO
This course is designed to teach students the technology and underlying concepts in producing Web radio. A general overview of radio techniques and historical context, as well as practical and technical information will be given. Legal and copyright implications of making Web radio will be reviewed. Prerequisites: COMM-ST 100, COMM-ST 105P or equivalent is recommended.
3 hrs

COMM-ST 431  COLLOQUIUM IN INTERPERSONAL DYNAMICS
An examination of the practical application of communication principles and theories, with focus on one of the following: health, organizational, nonverbal, intrapersonal, conflict management, computer-mediated, or intercultural communication. Prerequisite: None Offered: On demand.
3 hrs

COMM-ST 432  PRESS, POLITICS AND PUBLIC POLICY
Undergraduate component of COMM-ST 532. An advanced course in the study of the press and political establishments in the formation of public policy. Lecture, discussion and research. Prerequisites: Two semester of undergraduate writing courses of 300-400 level or professional equivalents.
3 hrs

COMM-ST 444 WI  INTERCULTURAL COMMUNICATION
A consideration of communication phenomena in multicultural settings. A study of the public forum with an emphasis on the interpersonal aspects of international, intercultural, and co-cultural communication. Lecture and discussion. On demand. Prerequisite: Successful completion of the WEPT.
3 hrs

COMM-ST 448  PRINCIPLES OF PUBLIC RELATIONS
An overview, presenting the function, purposes, procedures and practices of public relations, its role in society, industry, government and politics, and its potential as a career field. This is a survey course with primary emphasis on theory, supplemented with applied techniques.
3 hrs
COMM-ST 454  SCREENWRITING
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.
3 hrs

COMM-ST 456  ELECTRONIC JOURNALISM
A practical approach to the practices and principles of broadcasting news media, including preparing copy for microphone and camera, editing wire copy, reporting public affairs and public relations, and an intensive scrutiny of the concepts of freedom and responsibility as they apply to the press and current legislation. Prerequisite: COMM-ST 351. Fall and winter.
3 hrs

COMM-ST 457  PRODUCING AND DISTRIBUTING MEDIA
Survey of Contemporary practices used in the producing, funding and distribution of media for theatrical, broadcast, home video/dvd and web-based markets. Lectures, discussion and projects. Prerequisites: None
3 hrs

COMM-ST 458 WI  PUBLICITY, PROMOTION AND THE MEDIA
Writing intensive. A study of controlled and uncontrolled (public) media and their use to effect motivation of various target audiences, and alteration of attitudes, opinions, and beliefs in special publics; examination of the theory and nature of messages and materials generated by PR departments or counseling firms; analysis and practice in development of specialized communications materials, such as house organs, news releases, publicity and speeches to gain reaction and support from specialized groups. Prerequisite: COMM-ST 351 and successful completion of the WEPT. Offered: Fall.
3 hrs

COMM-ST 462  PUBLIC BROADCASTING
A study of the development of public broadcasting, its position and responsibilities in the world of modern communications. Programming and operations concepts and philosophies of public broadcast facilities will be studied and analyzed. Prerequisites: COMM-ST 308 AND COMM-ST 361. Offered: On demand.
3 hrs

COMM-ST 466  ELECTRONIC JOURNALISM PERFORMANCE
An advanced study of television and Internet news gathering, field production and performance for electronic media. Prerequisite: COMM-ST 456 Offered: Fall
3 hrs

COMM-ST 470  DIRECTING
An advanced course in video techniques with emphasis on creating complex formats for broadcasting, recording and performance. Lecture, discussion, and laboratory. Prerequisites: COMM-ST 270, COMM-ST 351 and COMM-ST 371. Offered: Winter
3 hrs

COMM-ST 471  ADVANCED MEDIA PRODUCTION
An advanced course in media production techniques involving knowledge and practical use of video, film and sound equipment to create professionally competitive media productions. Lecture, discussion, laboratory and research. Prerequisites: COMM-ST 240, COMM-ST 250, COMM-ST 373 or professional equivalents. Offered: Fall
3 hrs

COMM-ST 478  MEDIA LAW
A comprehensive examination of the law as it pertains to advertising, public relations, journalism, commercial and electronic media, broadcast regulatory agencies, corporate speech and corporate participation in elections. Students will study topics that include the First Amendment, defamation and privacy. Court opinions and legislation will be the course's primary focus, however students will also examine contemporary and historic theory of free expression. Offered: On demand.
3 hrs

COMM-ST 483  RESEARCH SEMINAR IN COMMUNICATION STUDIES
This is the departmental capstone course and is required for majors in their senior year. The course summarizes and extends student's theoretical and applied understanding of the role of communication competence in the work place and beyond. The course also focuses on refining student's research competencies and their appreciation of the cultural role of modern communication methods. Prerequisites: Completion of COMM-ST 308 and COMM-ST 344 and 12 additional hours of Communication Studies credits. Offered: Fall and Winter.
3 hrs

COMM-ST 484  COMMUNICATION STUDIES ACTIVITIES
Internships opportunities for advanced students involved in community and campus activities. Student must receive approval of advising professor in semester prior to enrollment. No more than four hours with any one project. Fall, winter and summer.
1-4 hrs

COMM-ST 498  SPECIAL PROBLEMS IN COMMUNICATION STUDIES
Research and/or projects for advanced upper class students. Student must receive approval of advising professor in semester prior to enrollment. No more than three hours with any one instructor. Offered every semester.
1-6 hrs

CRIMINAL JUSTICE AND CRIMINOLOGY

CJC 101  INTRODUCTION TO CRIMINAL JUSTICE
This introductory overview course is designed to familiarize students with the three main components of the adult criminal justice system: police, courts, and corrections. The course will investigate the viewpoints of offenders, victims, social scientists, the general public, and workers in the system on diverse issues of social control, criminal behavior, treatment and punishment.
3 hrs
CJC 101      INTRODUCTION TO CRIMINAL JUSTICE
This introductory overview course is designed to familiarize students with the three main components of the adult criminal justice system: police, courts, and corrections. The course will investigate the viewpoints of offenders, victims, and social scientists, the general public, and workers in the system on diverse issues of social control, criminal behavior, treatment and punishment.

3 hrs

CJC 250      INTRODUCTION TO POLICING
A comparison of law enforcement and peace-keeping functions of the police provides a basic theme for the course, with examination of several topics related to police accomplishing these functions. Some of the topics covered include police discretion, police professionalism, the police officer as a bureaucratic agent, and police-community relations.

3 hrs

CJC 265      DELINQUENCY AND JUVENILE JUSTICE
This course focuses on the nature, extent and theoretical explanations of delinquency and the history and philosophy behind the juvenile justice system in terms of the roles played by law enforcement, juvenile courts, and corrections. Juvenile groups such as status offenders, delinquents, gang members, victims, and juveniles adjudicated as adult criminals will also be examined.

3 hrs

CJC 270      PRINCIPLES OF CORRECTIONS
This course explores adult institutional and community-based corrections in the United States. Major areas examined include the evolution of corrections, the process of correctional reform, adult offenders and prison culture, treatment and rehabilitation of offenders, intermediate sanctions, and correctional workers.

3 hrs

CJC 300      STRUCTURAL THEORIES OF CRIME
The impact of sociodemographic, geographic, economic, political variables and sex roles in the occurrence and distribution of crime.

3 hrs

CJC 315      CRIME, CRIMINALS AND VICTIMS
This course addresses the study of crime, criminal and victims. It examines the relationship between victims and offenders. Special treatment is given to criminological as well as victimological theories. A segment of the course will address the sporadic nature of juvenile crime. The course will examine viable strategies to reduce levels of victimization. In the final analysis the course will offer crime prevention strategies.

3 hrs

CJC 317      POLICIES OF DRUG USE AND CONTROL
Utilizing both historical and contemporary information, this course provides an assessment of the “drug problem” in the U.S. and policies of control developed in response to the problem. Drug use criminalization, legalization, medical treatment, and prevention strategies and related issues are considered in regard to scientific knowledge related to the patterns, causes, and impact of substance abuse. Also offered as SOCIOL 317. Offered annually.

3 hrs

CJC 319      THEORETICAL CRIMINOLOGY
A comprehensive examination of the major criminology theories, their philosophical assumptions, and the socio-historical context in which they were articulated. Also offered as SOCIOL 319.

3 hrs

CJC 320      THE SUPREME COURT AND THE CRIMINAL PROCESS
Course examines recent Supreme Court decisions on the constitutional aspects of the administration of justice. Topics include the rationalization of the Bill of Rights and jurisdiction with an emphasis on problems involving the Fourth, Fifth, Sixth, Eighth, and 14th Amendments.

3 hrs

CJC 351      POLICING IN THE COMMUNITY
The purpose of this class is to introduce the student to police operations and the effectiveness of different police programs. The material discussed in class focuses on empirical evaluations of police effectiveness, and the role of the police in today’s society. This class is divided into four broad areas: the nature and effectiveness of patrol, criminal investigations; special operations including crackdowns, responses to domestic assaults, and hot spot policing; and the latest crime prevention strategies, such as community oriented policing and problem solving.

3 hrs

CJC 355      CRIME AND PUBLIC POLICY
This course addresses how society has responded to the crime problem during changing social, historical, political and economic contexts. Special attention will be given to how society has reacted to crime (with liberal treatment and rehabilitation or conservative punitive approaches) from the 1920’s to the present.

3 hrs

CJC 355 P     CRIME AND PUBLIC POLICY
This course addresses how society has responded to the crime problem during changing social, historical, political and economic contexts. Special attention will be given to how society has reacted to crime (with liberal treatment and rehabilitation or conservative punitive approaches) from the 1920’s to the present.

3 hrs

CJC 363      INTRODUCTION TO STATISTICS IN SOCIOLOGY/CRIMINAL JUSTICE
A first course in the statistical analysis of quantitative data. Course emphasizes descriptive statistics, probability theory, parameter estimation, bivariate hypothesis testing, and computer applications. Prerequisites: MATH 110, MATH 116 or an equivalent. Offered: Fall

3 hrs

CJC 371      COMMUNITY CORRECTIONS
This course will examine intermediate sanctions in the United States, such as probation, halfway houses, boot camps, among others. Specifically, the origin and proliferation of the use of corrections in the community will be explored in depth. The effectiveness of several major community correctional strategies will be explored through a review of the research literature base. Several issues will be highlighted including (but not limited to ) ethical constraints, political problems, and treatment effectiveness in light of the use of community sanctions. Offered: One time every other year.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJC 373</td>
<td><strong>Institutional Corrections</strong></td>
<td>This course will examine several aspects of the American Prison. Specifically, current issues in the management and growth of the prison industry will be reviewed. These issues will include major constitutional applications, the management of special populations within the prison environment, and a general review of several aspects of day-to-day prison life. These issues and others will be explored through a review of the research literature base germane to prisons and institutions.</td>
</tr>
<tr>
<td>CJC 390</td>
<td><strong>New Dimensions In Criminal Justice</strong></td>
<td>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.</td>
</tr>
<tr>
<td>CJC 420</td>
<td><strong>Control Of Crime And Delinquency</strong></td>
<td>The various ways societies have tried to control and prevent violations. Topics: the nature and types of law; a critical analysis of American police, judicial and penal systems; the prevention of crime and delinquency. Also offered as SOCIOL 420.</td>
</tr>
<tr>
<td>CJC 421</td>
<td><strong>Criminal Behavior In The United States</strong></td>
<td>A description and causal analysis of complex forms of criminal behavior in contemporary American society; included for study will be organized and professional crime, white collar crime, homicide, street crime, and crimes against morals involving sex, alcohol, drugs and gambling. Also offered as SOCIOL 421.</td>
</tr>
<tr>
<td>CJC 424</td>
<td><strong>The Death Penalty In America</strong></td>
<td>This course takes a sociological look at the most extreme punishment currently in use in the United States. Society debates its value without giving much weight to the research which social science conducts. Indeed, the political domain frequently misrepresents the data that is available. The course evaluates the adequacy of the research and separates the strands of the debates in order to understand the role of the death penalty in our society. Also offered as SOCIOL 424.</td>
</tr>
<tr>
<td>CJC 429</td>
<td><strong>Restorative Justice</strong></td>
<td>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.</td>
</tr>
<tr>
<td>CJC 435 WI</td>
<td><strong>Gender And Law</strong></td>
<td>This course examines the contemporary legal rights and obligations of women in light of the historical relationships between the social status of women and their legal status. Topics investigated include proprietary and contractual rights, family law, employment practices, educational opportunities, and women as victims and perpetrators of crime. Prerequisite: Successful Completion of the Wept Test</td>
</tr>
<tr>
<td>CJC 450</td>
<td><strong>Women, Crime And Criminal Justice</strong></td>
<td>This course will focus on the experiences of women and girls with crime in America. The primary areas studied will be females as victims, offenders, and professionals in the criminal justice system. Various criminological theories and research will also be examined in light of gender.</td>
</tr>
<tr>
<td>CJC 470 WI</td>
<td><strong>Capstone: Criminal Justice And Criminology</strong></td>
<td>This course is designed to integrate student's program of study in the major of criminal justice and criminology. The class examines current conditions of the justice system with respect of race, gender and social class. This course satisfies the writing intensive requirement for the General Degree Requirements of the College. Prerequisites: WEPT, course taken in student's last semester. Semester offered: Fall/Winter</td>
</tr>
<tr>
<td>CJC 475</td>
<td><strong>White Collar Crime</strong></td>
<td>This course examines activities variously called white-collar crimes, crimes of privilege, corporate and government crimes, and upperworld crimes. The purposes of the course are (1) to describe, analyze, and assess social impact of these offenses, (2) to examine the capacity of existing theories in criminology and social deviance to account for those activities, (3) to describe the responsibilities, powers, and activities of those agencies which have jurisdiction over them, and (4) to assess the effectiveness of various legal sanctions in controlling such activities and to review the problems involved in legislation intended to achieve that control.</td>
</tr>
<tr>
<td>CJC 476</td>
<td><strong>Seminar In Criminal Justice And Criminology Issues</strong></td>
<td>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.</td>
</tr>
<tr>
<td>CJC 483</td>
<td><strong>Methods Of Sociological Research</strong></td>
<td>A seminar which explores the interrelationships between sociology theory, research methods and statistics. May focus on major contemporary issues building on and integrating knowledge obtained in previous courses. Also offered as SOCIOL 362.</td>
</tr>
<tr>
<td>CJC 486</td>
<td><strong>Methods Of Program Evaluation</strong></td>
<td>This course focuses on applying research methodological techniques to evaluation of programs designed to respond to social problems and issues (e.g., drug use, crime, delinquency, indigent care). Topics of interest to those charged with designing and executing program evaluations are considered, including types of program evaluation assessment, use of time series models, special research issues for program evaluation, and generating and testing hypotheses from program objectives. Also offered as SOCIOL 486. Offered annually.</td>
</tr>
</tbody>
</table>
INTRODUCTION TO ECONOMICS I
ECON 100 ECONOMICS EXPLAINED
This course simplifies and clarifies the vocabularies and concepts used to describe all the important economic phenomenon in our society today: unemployment, trade deficits, government budget deficits or surpluses, inflation, investments, and customer debt. It describes where we've been (economically) and assess the future of the economic system we call capitalism.

INTRODUCTION TO ECONOMICS I
ECON 201 This course deals primarily with macroeconomic or national economic concepts, the economics of the determination of recession, inflation, maintenance of full employment and economic growth, with an emphasis upon the economics of modern Keynesian analyses. It further introduces the economics of Marx and Ayres and discusses relevant and current economic issues. ECON 201 and 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every semester.

INTRODUCTION TO ECONOMICS II
ECON 202 This course deals primarily with microeconomics, firm analysis, the principles of demand, supply, elasticity, price determination, costs, income distribution, market structures, trade, and other related social, economic issues. ECON 201, ECON 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every semester.

INTRODUCTION TO ECONOMICS II
ECON 203 This course deals primarily with microeconomics, firm analysis, the principles of demand, supply, elasticity, price determination, costs, income distribution, market structures, trade, and other related social, economic issues. ECON 201, ECON 202 are prerequisites for all other economics courses except with specific permission of the instructor. Every semester.

PRINCIPLES OF ECONOMICS
ECON 204 This 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.

CLUSTER COURSE: MEXICO, CENTRAL AMERICA AND THE HUMAN CONDITION
ECON 300 This cluster course 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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 300 CS</td>
<td><strong>Cluster Course</strong></td>
<td>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.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 301</td>
<td><strong>Macroeconomic Analysis</strong></td>
<td>The economic system as a whole and the ways in which its functioning is affected by the behavior of the interdependent sectors of which it is composed. Major factors affecting national income; use of sectoral accounts in analyzing economic prospects. Offered: Every Semester Prerequisite: ECON 201 and ECON 202</td>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 301 P</td>
<td><strong>Macroeconomic Analysis</strong></td>
<td>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.</td>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 302</td>
<td><strong>Macroeconomic Analysis</strong></td>
<td>Functioning of the individual enterprise and households. Problems confronting business enterprises operating under different types of market situations; influence of the prices factors of production on methods of production; effects that changes in income levels and in relative prices have on sales of different types of goods and services. Every semester. Prerequisite: ECON 201 and ECON 202 Offered: Every Semester</td>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 302 P</td>
<td><strong>Macroeconomic Analysis</strong></td>
<td>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.</td>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 303 H</td>
<td><strong>Special Issues in Economic</strong></td>
<td>Readings and discussions of selected economic topics. Content varies over time as economic conditions change. Designed for outstanding students in Principles of Economics. Prerequisites: ECON 202 and/or ECON 202. Semester offered: Fall</td>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 308</td>
<td><strong>Challenges Facing the US Economy</strong></td>
<td>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</td>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 310</td>
<td><strong>The United Nations: Politics and Economics</strong></td>
<td>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</td>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 312</td>
<td><strong>Theory of Economic Development</strong></td>
<td>Controversial problems affecting the nature, sources and process of development of industrial technology and the economy of private enterprise. On demand.</td>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 314</td>
<td><strong>Race, Class and Gender: Theory, History, and Policy</strong></td>
<td>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</td>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 323 P</td>
<td><strong>Administration in the Service Industry</strong></td>
<td>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.</td>
<td>4 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 331 P</td>
<td><strong>Money and Banking</strong></td>
<td>A study of the structure, operations and problems of banks and other financial institutions with emphasis on their macroeconomic performance. The importance of banking in the financial system and the influence of Federal Reserve monetary policies are also studied. Offered: Fall.</td>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 336</td>
<td><strong>The Kansas City Economy</strong></td>
<td>This course explores the Kansas City economy in depth from both a micro and macro perspective. The macro approach details how important the Kansas City economy is to the state of Missouri, to the US economy, and in the international arena. The micro approach details the contribution of the many different sectors of the KC area to the overall local economy. Prerequisite(s): ECON 100, ECON 201 or ECON 202 Offered: Winter Restrictions: None</td>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ECON 343 P  RESOURCE ACQUISITION AND DISTRIBUTION IN THE HOSPITALITY INDUSTRY
This course will examine economic policy that is the basis for materials acquisition policies and practices within the hospitality industry. Additionally, students will study materials flow from source to final user. Special emphasis will be placed on policies and procedures that maximize resource usage. This course may not be used by students to fulfill requirements for the major in Economics or a Concentration in Commercial Economics. Prerequisites: None. Offered: Fall.

4 hrs

ECON 366  ART MARKETS
An economic analysis of the development of art markets and the issue of government involvement in the arts. Prerequisite: ECON 202 is recommended, but not required.

3 hrs

ECON 395  CURRENT ECONOMIC ISSUES
Each of these one-hour courses will deal with one selected topic. Students enrolled should have some background in the social sciences. A maximum of three ECON 395 courses will apply towards the department's graduation requirements for a major.

1 hr

ECON 395 A  ECONOMIC ISSUES
1 hr

ECON 395 B  THE ECONOMICS OF LAW
1 hr

ECON 395 C  THE ECONOMICS OF ENERGY
1 hr

ECON 395 D  ECONOMIC ISSUES
1 hr

ECON 395 E  THE ECONOMICS OF AGING
1 hr

ECON 395 F  THE ECONOMICS OF MINORITIES
1 hr

ECON 395 G  THE ECONOMICS OF POVERTY
1 hr

ECON 395 H  THE ECONOMICS OF THE ARTS
An analysis of the past and present policies regarding the financing of the Arts.

1 hr

ECON 395 I  VIEWS OF A GOOD SOCIETY
This course looks at different views of a good society from the perspective of Utopian economics. The materials dealt with in the course will be drawn from Utopian books, supplemented with material drawn from cartoons, art, literature, poetry, film, and music. Prerequisite: None Offered: On Demand

1 hr

ECON 397 A  THE ECONOMICS OF PUBLIC PROCESS AND PRIVATE CHOICE I
This film/tape course and ECON 397B are specifically designed in the format of the PACE program. Regular majors in economics may count one of these two courses as meeting the 27 minimum required departmental hours. The J.K. Galbraith film series and text, The Age of Uncertainty, provide the central theme for this course.

1 hr

ECON 397 B  THE ECONOMICS OF PUBLIC PROCESS AND PRIVATE CHOICE II
This film/tape course and ECON 397A are specifically designed in the format of the PACE program. Regular majors in economics may count one of these two courses as meeting the 27 minimum required departmental hours. The Milton Friedman film series, Free to Choose, provides the central theme for this course.

1 hr

ECON 397 CP  CURRENT MACROECONOMIC ISSUES
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.

3 hrs

ECON 404 R  AMERICAN ECONOMIC HISTORY SINCE 1865
The course deals with the emergence of Industrial America since 1865. It covers the rise to dominance of the large modern corporation, the problems of economic and social instability and stability, the rise of large associations, cartels, and government regulation in an unstable economy, and the role of American economic policy and rational economic planning. Offered: On demand. Prerequisites: ECON 201 and ECON 202
ECON 404 RR  AMERICAN LABOR HISTORY
This course examines history of work and the working class in the U.S. from 1750 to the present. We will focus on the transformation of the workplace, the rise of the union movement, the nature of cultural and political organizations, workers' relationships with other social groups, and the role played by gender, race, and ethnicity in uniting or dividing the working class. Also cross-listed with HISTORY 366RR. Prerequisite: ECON 201 and ECON 202

3 hrs

ECON 405  EUROPEAN ECONOMIC SYSTEMS
A general study of the economic systems of Germany, France, Sweden, the United Kingdom, Russia, and other countries; and the European Economic Union. The course will study the economic-business organization, economic and social policies, trade policies, and the ongoing political, economic, and business changes within the area, and their relation to other areas of the world in terms of economics, business and trade. Prerequisite: Either ECON 100, ECON 101, ECON 201, or ECON 202. Offered: Fall

3 hrs

ECON 406 WI  HISTORY OF ECONOMIC THOUGHT
Analysis of basic concepts of economic thought, their historical sources and significance. Prerequisite: Successful completion of WEPT Test. Offered: Every semester.

3 hrs

ECON 408  THE TWENTIETH CENTURY: CRISIS IN ECONOMIC HISTORY/CHANGING ECON ANALYSIS
The course will deal with selected major historical crisis in the Twentieth Century that changed Economic Theory and our lives, such as the post World War I period; the Depression of the 1930s; the international payments crisis and the development of Bretton Woods; the oil crisis of the 1970s; and the effect of the above upon changing economic analysis such as the Keynesian Revolution and its "counter revolution", and the economic and policy consequences. Prerequisites: ECON 101 and ECON 202; Senior or Graduate standing.

3 hrs

ECON 412  INTERNATIONAL TRADE AND DEVELOPMENT
This course emphasizes the global allocation of resources and distribution of income in the analysis of economic development and international trade. Major topics include various theories of economic development, comparative advantage, terms of trade, tariffs, quotas, economic integration and the use of trade to foster economic development. Prerequisite: ECON 100

3 hrs

ECON 414  PROBLEMS IN LATIN AMERICAN DEVELOPMENT
Analysis of those historical, geographic, political, social and economic factors which have served to impede the development of the Latin American countries and discussion of development planning as it applies to these problems. Prerequisite: ECON 412 or consent of the instructor. On request.

3 hrs

ECON 416  LAW AND ECONOMICS
This course will examine the use of economic principles in the analysis and application of public and private law. Emphasis will be given to the efficiencies of laws in meeting social objectives, how laws can be modified to become more economically efficient, and the uses of economics in the actual practice of the law. Issues covered will include proofs of liability in antitrust, contracts and employment law using statistical and economic analysis, and the calculation of economic damages in commercial, employment and personal injury/death litigation. Graduate students will be assigned a specific research paper. Prerequisite: ECON 302 Offered Every other winter.

3 hrs

ECON 420  ENVIRONMENT, RESOURCES AND ECONOMIC GROWTH
This course focuses on the theory and policy issues involved in resource creation and depletion; environmental destruction, preservation and recreation; and the interrelation of these problems of and prospects for economic growth. Prerequisite: ECON 202 Offered: On request

3 hrs

ECON 421  MATHEMATICAL ECONOMICS
An introduction to mathematical methods as applied to the questions addressed by economists. The principal methods to be applied are matrix algebra and differential calculus in the context of optimization. Other topics may include integral calculus, differential equations, difference equations, or linear and non-linear programming. Prerequisites: ECON 301, ECON 302 and MATH 210

3 hrs

ECON 423 P  LEGAL & SOCIAL ISSUES OF THE HOSPITALITY INDUSTRY
This course will investigate societal and economic issues that have influenced the development of significant industry legal issues. Additionally, students will examine laws pertinent to the hospitality industry and investigate the relationship of these legal issues to historical and current societal issues. This course may not be used by students to fulfill requirements for the major in Economics or a Concentration in Commercial Economics. Prerequisites: None. Offered: Winter.

4 hrs

ECON 425  INTERMEDIATE ECONOMIC STATISTICS
An introduction to the empirical side of economics. Estimation theory and the properties of commonly used estimators are covered. Some of the more important topics dealt with are: multiple regression, heteroscedasticity and autocorrelation in regression analysis, analysis of variance and the use of qualitative variables in regression analysis. Hands-on work with computer software designed for econometrics is stressed. No experience with computers necessary. Prerequisites: ECON 301, ECON 302 and MATH 235 or its equivalent. Semester offered: Every year.

3 hrs

ECON 429  ENVIRONMENT, RESOURCES AND ECONOMIC GROWTH
This course focuses on the theory and policy issues involved in resource creation and depletion; environmental destruction, preservation and recreation; and the interrelation of these problems of and prospects for economic growth. Prerequisite: ECON 202. On request.

3 hrs

ECON 431  MONETARY THEORY AND POLICY
A study of the nature and functions of money and the financial system, with emphasis on monetary theory and its application to current banking and financial problems. Recent contributions to monetary theory and current literature. Prerequisite: ECON 301. Every year.
ECON 433  COMMERCIAL ECONOMICS ASPECTS OF THE HOSPITALITY INDUSTRY
This course will examine economic policies that are the basis for accounting and financial practices within the hospitality industry. Additionally, students will explore managerial accounting essentials and examine their use in planning, controlling, and developing budgets within the hospitality industry. This course may not be used by students to fulfill requirements for the major in Economics or a Concentration in Commercial Economics. Prerequisites: None. Offered: Winter.

ECON 435  PUBLIC FINANCE
Problems of public and private sector decision making of revenue-expenditure policies and an examination of the actual legal, political and economic policies for revenues and expenditures of federal, state and local governments. Prerequisite: ECON 302. On request.

ECON 437  STATE AND LOCAL GOVERNMENT FINANCE
This course investigates the role, problems and relative importance of municipal governments in the United States. Such areas as the demand for public services, tax and expenditure policies, and intergovernmental fiscal relations will be explored in detail. Case studies of state and local governments will be introduced to emphasize the problems and proposed solutions arising in modern municipal governments. Prerequisite: ECON 302. On request.

ECON 438  ECONOMIC POLICY
Analysis of the confluence of political and economic behavior, the economics of collective action. Prerequisites: ECON 301 and ECON 302. On request.

ECON 442  INTERNATIONAL FINANCE
This course emphasizes the global activity and balance of payments implications of government taxation, expenditure and monetary policies under various capital market conditions. Major topics include: exchange rates and the balance of payments; national income determination in an open economy; integrated and non-integrated capital markets; economic growth stabilization policies and the quest for global economic stability. Prerequisite: ECON 301 or equivalent.

ECON 448  SOCIALIST ECONOMIC SYSTEMS

ECON 450  REGIONAL ECONOMICS
Contemporary policy approaches to regional growth and decline are analyzed in this course. Prerequisite: ECON 302 Semester offered: On request.

ECON 451  INSTITUTIONAL ECONOMIC THEORY
Analysis of impact of modern philosophy and developments in social sciences on economic theory. Prerequisites: ECON 301,ECON 302 or consent. Semester offered: Every semester.

ECON 458  URBAN ECONOMICS
An inquiry into the economics of location decisions and the influence of these on urban growth and on the real estate market; the evaluation of urban transportation and other public services; an examination of economic development of ghetto neighborhoods. Prerequisite: ECON 302 or its equivalent, or by special permission of the instructor. On request.

ECON 460  INDUSTRIAL ORGANIZATION

ECON 461  PUBLIC UTILITY ECONOMICS
This course is designed to examine the theory and practice of public utility economics. It includes study of the public utility concept and how it has evolved and is evolving, the operation of public utilities in the U.S. economy, the methods and practice of regulating utilities, industry by industry case studies and current issues in public utility economics. On request.

ECON 465  THE ECONOMICS OF HEALTH AND MEDICINE
An economic analysis of the development of the medical market; organized medicine and the structure of existing health delivery systems. The problems of the medical market will be analyzed; the role of insurance will be investigated and alternative public policies will be studied. Prerequisite: Advanced standing or consent of the instructor. On request.

ECON 480  MANAGERIAL ECONOMICS AND OPERATIONS ANALYSIS
This course focuses on the application of microeconomic theory to a variety of contemporary business and government problems. Through case studies, students are introduced to the full complexity of actual industrial and government decisions and the diversity of microeconomic tools and concepts that can be brought to bear on these decisions. Prerequisites: ECON 301 and ECON 302. Semester offered: On request.

ECON 487  HISTORY OF LABOR MOVEMENTS
This course is concerned with the early formation and the transformation of labor unions given the changing American industrial climate. Study will include early union structures, forerunners of modern unions, such as the Knights of Labor, development of the current unions and the potential for union survival in the post-industrial era.
The study and practice of reading with basic English vocabulary in context. Exercises focus on reading comprehension, identifying the topics of short readings, and the introduction of basic dictionary skills. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned. 3 hrs

3 hrs

ECON 488 RADICAL POLITICAL ECONOMY
This course will cover the ideas that constitute radical political economy. It will show how radical political economy can be used to examine current economics and social problems and will outline possible economic structures of utopian visions. Offered: On Request 3 hrs

3 hrs

ECON 490 READINGS IN ECONOMICS
Intensive reading and/or research in an area selected by the student in consultation with the professor in any of the following fields: (a) economic theory, (b) history of economic thought, (c) labor economics, (d) urban economics, (e) monetary and fiscal policy and theory, (f) international economics, (g) economic development, (h) comparative economic systems, (i) public finance, (j) public policy toward business, (k) quantitative economics. By permission only. On request. 1-3 hrs

1-3 hrs

ECON 495 COLLOQUIUM IN ECONOMICS
Each course will deal with a particular topic in economics: A) Manpower Economics; B) Political Economy; C) Area Studies in Economics-Europe; D) Area studies in Economics-Africa; and E) Area studies in Economics-Asia. Prerequisite: ECON 201, ECON 202. On request. 3 hrs

3 hrs

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

3 hrs

ENGLISH

ENGLISH 100 INTRODUCTORY WRITING
The study and practice of the rhetorical principles and basic skills of standard English prose, and critical reading. Frequent writing exercises emphasize formulating a thesis, organization, development and the grammatical elements of sentences. This course carries no credit toward graduation in the College of Arts and Sciences. However, on the recommendation of the instructor, a student may take the standard ENGLISH 110 final examination. If, in the opinion of the Director of Freshman English and two other readers, the student passes the examination with a B or better grade, the student may receive ENGLISH 110 credit. 3 hrs

3 hrs

ENGLISH 100 E SPECIAL STUDIES IN CULTURE RESEARCH AND PEDAGOGY FOR IGTA
The study and practice of classroom teaching techniques, especially those that compensate for non-standard English pronunciation. Exercises and supplemental tutoring focus on lecture organization, strategies for clear presentation, and improving pronunciation and conversation skills. The course prepares students for a required videotaped lecture and the SPEAK test. This course carries no credit toward graduation in the College of Arts and Sciences. Offered: Every semester. 1 hr

1 hr

ENGLISH 100 F SC:ACADEMIC ENGLISH/INTERNATIONAL GRAD TEACHING ASSISTANTS & APPL
The study and practice of standard spoken English combined with the study and practice of classroom teaching techniques. Exercises focusing on improvement of pronunciation, and formal (classroom presentation) and informal (conversation) English speaking are combined with techniques for lecture organization, strategies for clear content presentation, and with analysis of the American post-secondary educational culture. This course is designed for prospective International Graduate Teaching Assistants who need to improve their English communication skills and obtain an understanding of American educational culture. This course carries no credit toward graduation in the College of Arts and Science. 3 hrs

3 hrs

ENGLISH 100 S SPECIAL TOPICS IN ENGLISH AS A SECOND LANGUAGE
A course designed to address the specific needs of an individual student or group of students studying English as a Second Language. In addition to targeting English skills, the course may address topics or skills which are not covered in the standard Academic English curriculum of the Applied Language Institute. This course will accommodate individual students or groups of students studying at the Institute for periods of time other than the standard semester length. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisite: ALI Approval Offered: Fall/Winter/Summer 1-3 hrs

1-3 hrs

ENGLISH 100 T TOEFL PREPARATION
This course will prepare students to take the TOEFL (Test of English as a Foreign Language), in either the Paper(PBT) or Computer-based (CBT) form, and/or to improve their scores from previous attempts. Exercises focus on developing the skills and strategies necessary for navigating TOEFL questions while continuing to develop the general English language skills that support success on the TOEFL. The course will provide students with a personal awareness of strengths and weaknesses so they may focus their test preparation work in and outside of class. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisite: Applied Language Institute approval Offered: Every semester 3 hrs

3 hrs

ENGLISH 101 B ACADEMIC SPEAKING & LISTENING FOR NON-NATIVE SPEAKERS I
The study and practice of speaking and listening for basic social functions in English. Exercises include the practice of basic descriptions and the development of oral/aural skills for beginning ESL students. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned. 3 hrs

3 hrs

ENGLISH 101 C ACADEMIC READING & VOCABULARY FOR NON-NATIVE SPEAKERS I
The study and practice of reading with basic English vocabulary in context. Exercises focus on reading comprehension, identifying the topics of short readings, and the introduction of basic dictionary skills. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned. 3 hrs
ENGLISH 101 D  ACADEMIC WRITING FOR NON-NATIVE SPEAKERS I
The study and practice of basic writing skills including handwriting, spelling, capitalization and punctuation. Frequent short exercises emphasize basic sentence structure, biographical description, and completion of standard forms. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

3 hrs

ENGLISH 101 G  ACADEMIC GRAMMAR FOR NON-NATIVE SPEAKERS I
The study and practical application of basic sentence structure and word parts. Frequent exercises emphasize use and understanding of simple sentences, questions, directions, and descriptions in the present and past tenses. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute Approval. Offered: Fall/Winter/Summer Letter grade assigned.

3 hrs

ENGLISH 102 B  ACADEMIC SPEAKING & LISTENING FOR NON-NATIVE SPEAKERS II
The study and practice of speech in environments such as the classroom, work, and simple social occasions. Exercises focus on students's ability to distinguish sounds and to produce them correctly in the context of a sentence and to listen for specific information. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

3 hrs

ENGLISH 102 C  ACADEMIC READING & VOCABULARY FOR NON-NATIVE SPEAKERS II
The study and practice of reading narrative and expository texts and standard forms. Exercises focus on the development of vocabulary and introduction of reading techniques such as identification of topics and main ideas, skimming, scanning, prediction, and inference. This course carries no credit toward graduation in the College of Arts and Science. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

3 hrs

ENGLISH 102 D  ACADEMIC WRITING FOR NON-NATIVE SPEAKERS II
The study and practice of techniques for writing short paragraphs in English. Frequent exercises emphasize various forms of paragraph organization and the improvement of punctuation and mechanical skills in writing. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

3 hrs

ENGLISH 102 G  ACADEMIC GRAMMAR FOR NON-NATIVE SPEAKERS II
The study and practical application of basic sentence structures, including future and irregular past tense constructions. Frequent exercises emphasize use and understanding of comparatives, wh-questions, and compound nouns and verbs. This course carried no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer

3 hrs

ENGLISH 103 B  ACADEMIC SPEAKING & LISTENING FOR NON-NATIVE SPEAKERS III
The study and practice of listening for and producing speech in the past, present and future tenses. Exercises introduce note-taking techniques and focus on the ability to hear and express abstract ideas. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

3 hrs

ENGLISH 103 C  ACADEMIC READING & VOCABULARY FOR NON-NATIVE SPEAKERS III
The study and practice of longer reading passages of various rhetorical styles. Exercises focus on improvement of reading speed and the development of vocabulary and comprehension through complex inferences. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

3 hrs

ENGLISH 103 D  ACADEMIC WRITING FOR NON-NATIVE SPEAKERS III
The study and practice of writing multi-paragraph academic essays. Frequent exercises emphasize point-of-view, process writing, and a variety of rhetorical styles. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

3 hrs

ENGLISH 103 G  ACADEMIC GRAMMAR FOR NON-NATIVE SPEAKERS III
The study and practical application of complex sentence structures, including perfect and perfect progressive tenses. Frequent exercises emphasize use and understanding of passive voice, gerunds and infinitives, articles, conditionals, and modals. The course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

3 hrs

ENGLISH 104 B  ACADEMIC SPEAKING & LISTENING FOR NON-NATIVE SPEAKERS IV
The study and practice of standard English, particularly in the college classroom. Exercises include training in academic lecture comprehension and note-taking as well as formal (classroom presentation) and informal (conversation) English speaking. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Lang. Inst. approval. Offered: Fall/Winter/Summer Letter grade assigned.

3 hrs

ENGLISH 104 C  ADVANCED ACADEMIC ENGLISH READING FOR NON-NATIVE SPEAKERS IV
This course focuses on preparing students to deal effectively with sophisticated academic reading materials by guiding them in the development of a conscious and reflective approach toward reading. It emphasizes advanced reading skills of interpretation, inference, critical analysis, evaluation and application. There will be frequent exercises addressing the acquisition and practice of study skills and collaborative academic work. Prerequisites: Completion of ENGLISH 103C with a grade of B or better or Applied Language Institute approval. Offered: Fall/Winter/Summer Letter grade assigned.

3 hrs
ENGLISH 104 D  ACADEMIC WRITING FOR NON-NATIVE SPEAKERS IV
The study and practice of rhetorical principles in standard English prose. Frequent writing exercises emphasize critical thinking and research skills as well as fluency and accuracy in academic writing. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Lang. Inst. approval. Offered: Fall/Winter/Summer. Letter grade assigned.
3 hrs

ENGLISH 104 G  ADVANCED ACADEMIC ENGLISH GRAMMAR FOR NON-NATIVE SPEAKERS IV
This course focuses on the analytical understanding and application of English grammar. Students will be expected to observe usage patterns of the English language in a combination of both normative and prescriptive grammars appropriate for academic English application. There will be frequent exercises emphasizing mastery of complex grammar structures including all verb tenses, dependent clauses, modals, and unreal conditionals, and of the relationship between ideas and the construction of sentences in academic discourse. Prerequisites: Completion of ENGLISH 103G with a grade of B or better or Applied Language Institute approval. Offered: Fall/Winter/Summer. Letter grade assigned.
3 hrs

ENGLISH 105 A  ADVANCED ACADEMIC ENGLISH (MULTISKILLS) FOR NON-NATIVE SPEAKERS V
The comprehensive study and practice of standard English skills for advanced students of English as a second language. Level readings focusing on current issues serve as the basis for frequent writing exercises and for classroom discussions and presentations. This course carries no credit toward graduation in the College of Arts and Sciences. Prerequisites: Applied Language Inst. approval. Offered: Fall/Winter/Summer. Letter grade assigned.
3 hrs

ENGLISH 110  ENGLISH I: INTRODUCTION TO ACADEMIC PROSE
This course introduces students to college-level reading, writing, and discourse analysis: It engages students in the analysis and creation of texts that reveal multiple perspectives about specific rhetorical situations and cultural issues. In addition to learning how to revise by analyzing their own writing, students will learn to edit their own work and use proper academic documentation. Offered: Every Semester.
3 hrs

ENGLISH 110 A  FRESHMAN ENGLISH I FOR NON-NATIVE SPEAKERS
The study and practice of analytical and critical reading. The study of basic rhetorical principles and the practice of those principles in frequent short papers; close reading of prose. Prerequisites: Applied Language Institute approval. Offered: Fall/Winter/Summer.
3 hrs

ENGLISH 200  INTRODUCTION TO UNDERGRADUATE STUDY IN ENGLISH
An investigation of reading, writing, and research practices associated with studies in English. Students will learn about multiple forms, genres, and critical approaches, as well as encounter texts from various historical periods and places. Required of all English majors before enrolling in 400-level English courses.
3 hrs

ENGLISH 204  WRITING ABOUT LITERATURE
This course is designed to be taken either prior to or concurrent with a student’s first literature course. It introduces students to literary criticism in its broadest, most generic sense, as a stylized response to reading. Students in the course will be introduced to different approaches to writing about literature, to methods of generating ideas, and focusing and developing a topic. Prerequisite: ENGLISH 110 or its equivalent.
1 hr

ENGLISH 205  POPULAR LITERATURE
The course focuses on writing in English by a range of popular authors from a variety of periods and places, historic and contemporary. The course may include popular stories, songs and ballads, the scripts of blockbuster plays and films, best-selling novels, and widely distributed nonfictional prose.
3 hrs

ENGLISH 213  INTRODUCTION TO DRAMA
Beginning with an intensive study of a few plays analyzed to elicit general principles, the course moves on to consider several representative examples of each of the major periods and types of Western drama, from the Greeks to the present. The two hour version of this course will be offered only off-campus.
2-3 hrs

ENGLISH 214  INTRODUCTION TO FICTION
Emphasis in this course is on critical reading of short stories and the novel selected from all periods of English, American, and European literatures. The course will introduce the systematic study of fiction as a literary genre and will equip students for more advanced work in literature. Writing assignments are designed to aid in the understanding of the structure and content of the material covered. Every semester.
3 hrs

ENGLISH 215  INTRODUCTION TO POETRY
An introduction to the study of poetry for students desiring a basic course either to develop a greater appreciation of poetry or to prepare for more advanced courses in literature or creative writing. Class discussions will focus on close readings of poems and analysis of poetic techniques. Writing assignments will complement reading and class discussion and will enable students to develop their own critical and creative skills.
3 hrs

ENGLISH 225  ENGLISH II: INTERMEDIATE ACADEMIC PROSE
This course extends the work of ENGLISH 110 with an additional emphasis on research. Each section of ENGLISH 225 uses a combination of book-length and shorter texts on focus on specific historical and/or cultural issues. As they learn to participate in scholarly conversations, students will find and evaluate library and internet sources. As with ENGLISH 110, this course emphasizes revision, editing, and proper academic documentation. Satisfactory completion of ENGLISH and sophomore standing are prerequisites for ENGLISH 225. Every semester. Note: ENGLISH 225 or its equivalent is a prerequisite for all 300 and 400 level English courses.
3 hrs

ENGLISH 225 A  ENGLISH II FOR NON-NATIVE SPEAKERS
The study and practice of expository writing and analytical and critical reading geared to the needs of students for whom English is not the first language. The course emphasizes the development and integration of all areas of language comprehension and production. The writing focus is on kinds of organization, dictation, style, etc. used in academic writing in the United States. Frequent research papers. Prerequisite: Satisfactory completion of ENGLISH 110 or ENGLISH 110A and sophomore standing. Applied Language Institute approval. Offered: Fall/Winter/Summer.
ENGLISH 241  WOMEN AND LITERARY CULTURE: INTRODUCTION
The course offers an introduction to women as producers and consumers of literature. Students will become acquainted with women writers, explore women's reading practices, and interrogate the issues that have surrounded women's participation in cultural arenas.

ENGLISH 250  INTRODUCTION TO LANGUAGE ACQUISITION AND DIVERSITY
Investigation of the basic principles of first and second language acquisition. Topics addressed include language competency, socio-cultural factors in language, dialects, acquisitional principles, and language diversity. Students will take part in monitored classroom observations in public schools, and will critically analyze how the topics addressed in class apply to real life and to teaching situations. A service learning component is included.

ENGLISH 299  FORM AND STRUCTURE OF WRITING
This course is required for students who have twice failed the English Proficiency Test (WEPT) and is open only to students who have failed the test at least once. The class will cover the basic conventions of successful expository and academic writing. Emphasis will be placed on methods of development and on strategies for organization. This course satisfies neither the college humanities requirement nor the junior-level writing requirement. Completion of the course with a grade of C or better does fulfill the WEPT requirement for graduation, however, and renders students eligible to enroll in courses designated Writing Intensive (WI). Does not count toward graduation.

ENGLISH 300  INTERDISCIPLINARY STUDIES/CLUSTER COURSE OFFERINGS

ENGLISH 300 CB  CLUSTER COURSE: WOMEN IN A MAN'S WORLD: GENDER, SEX & STATUS IN CLASSICAL ANTQ

ENGLISH 300 CD  CLUSTER COURSE: AMERICAN SOCIAL FILM/SILVER SCREEN/AMERICAN DREAM
This course will combine American social history and film history in the sound era. Using Hollywood entertainment films, the course will look at Hollywood as an indicator of social, political and economic conditions in the United States since the 1930s. The main topics are representations of the American dream and nightmare, poverty and affluence, success and failure. This course is offered as a cluster with COMM-ST 402CD, HISTORY 400CP, and AMER- ST 300CD.

ENGLISH 300 CE  CLUSTER COURSE: RADICAL CHANGES SINCE 1945
This cluster will focus on modernism, post-modernism and expressionism in the visual arts and literature since World War II. Common lectures will address intellectual movements-such as existentialism and formalism--and cultural development--such as the increased impact of technology and mass media--in contemporary society. By focusing on these movements, the cluster course hopes to provide an integrated view of the literature and visual arts of the period and to draw upon analogous developments in contemporary architecture, music, philosophy and film.

ENGLISH 300 CS  CLUSTER COURSE: CLIO & THE OTHER MUSES/HIST & CULTURE 5TH CENT ATHENS
Faculty from at least two different departments (one of which must be a department in the Division of Humanities including History) may determine the topic and syllabus, subject to the approval of the director of Integrated Studies and the program's advisory committee in addition to the approval of the departments involved. This special topics course will satisfy the interdisciplinary course requirement for the B.A.

ENGLISH 300 CY  CLUSTER COURSE: ANCIENT WORLD/CINEMA
this course will explore the tradition of depicting the ancient mediterranean world film from the early silent era to the present. Topics to be covered include the ways that filmmakers respond to literary and historical sources from the ancient world, interact with the artistic tradition of films about the ancient world, the relation of these films to other works by the same creative personnel (directors, actors, writers, producers, etc.), and the political and cultural contexts in which the films were released. This course is cross-listed with HISTORY 400CY.

ENGLISH 301 WI  WRITING AND THE ACADEMY
This course examines social and ethical issues raised by academic reading and writing. While some attention is paid to the formal aspects of academic prose within specific disciplines, the main emphasis of the course is on the cultural consequences of the different ways that academic knowledge is created and taught. In addition to studying the language and structure of academic reading and writing, the course explores the various rhetorics of the academy in terms of a broad range of subjects including economics, gender, education, history, and myth. This course satisfies the junior-level writing requirement and counts towards the writing minor. Prerequisites: ENGLISH 116, ENGLISH 225 and successful completion of the WEPT. Offered every semester.

ENGLISH 302 WI  WRITING IN CULTURAL CONTEXTS
This course focuses on writings that evolve from cultural, intercultural, and natural environments and offers development of students' critical reading, writing, and thinking skills by focusing on rhetorical situations and the more global contexts of writing. Students enhance their understanding of leadership and cooperation through synthesizing their knowledge and abilities of written communication with knowledge they have gained in other courses. Required for business students. Offered for undergraduate credit only. (Note: Students may not receive credit for more than one of the following: 305, 306, 403). Prerequisites: ENGL 110 and 225 or equivalent and successful completion of the WEPT. Offered: Every semester.

ENGLISH 303 WI  INTRODUCTION TO JOURNALISM
Introduction to the styles and techniques of reporting and writing basic news through assignments in straight news, features and in-depth stories. Exposure to the history and principles of American journalism. Practical application in in writing news and news feature articles. Also offered as COMM-ST 303WI.

ENGLISH 304 WI  WRITING AND TECHNOLOGY
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.

A survey of American literature and culture from its beginnings to 1865. This course will cover a range of authors, several genres, and culture forms, which may include fiction, poetry, drama, autobiography, oral, contact and/or slave narratives, folklore, and songs.

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.

An intensive critical study of William Shakespeare's writings in various contexts (historical, social, political, literary, contemporary, for example). Readings will encompass at least eight plays and will include at least one comedy, history, tragedy, and romance. Required of all English majors.

3 hrs

ENGLISH 305 WI  THEORY AND PRACTICE OF COMPOSITION
(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 the instructor. (NOTE: Students may not receive credit for more than one of the following: ENGLISH 305, ENGLISH 306, ENGLISH 403). Prerequisites: ENGLISH 110, ENGLISH 225, and successful completion of the WEPT. Offered: Every semester.

3 hrs

ENGLISH 310  INTRODUCTION TO LINGUISTICS/LANGUAGE SCIENCE
This course is a comprehensive introduction to the theory, methodology, and applications of the science of language. It examines properties of human language, covers all branches of language science, and provides a foundation for a critical understanding of language issues. Required for ENGLISH 470; recommended for ENGLISH 320 and ENGLISH 330.

3 hrs

ENGLISH 311  AMERICAN LITERATURE I
A survey of American literature and culture from its beginnings to 1865. This course will cover a range of authors, several genres, and culture forms, which may include fiction, poetry, drama, autobiography, oral, contact and/or slave narratives, folklore, and songs.

3 hrs

ENGLISH 312  CREATIVE WRITING I: FICTION
A course centered on the short story. Emphasis is placed on three areas: general principles governing the writing of fiction; practice in short fiction (primarily the short story, but including the novella); criticism; and technical skills (including editing and rewriting). Prerequisite: Concurrent enrollment in or completion of ENGLISH 213 or ENGLISH 214 or instructors permission.

3 hrs

ENGLISH 313 WI  REPORTING
A seminar of practical application in advanced reporting. Assignments to cover news events and to pursue in-depth news reports on the campus and off. Work is turned in on deadline and critiqued by the instructor. Prerequisites: ENGLISH 110, ENGLISH 225, and successful completion of the WEPT.

3 hrs

ENGLISH 315  CREATIVE WRITING POETRY
Writing and rewriting poems, with discussion of techniques needed to produce desired effects. Analysis and evaluation of student work. Examination of technical means utilized in selected poems by accomplished poets. Offered: Winter. Prerequisites: Concurrent enrollment in or completion of ENGLISH 215 or instructors permission.

3 hrs

ENGLISH 316 WI  LITERARY NONFICTION
Literary Nonfiction is a writing intensive course in the reading and writing of nonfiction prose as a literary art. We'll survey the historical development of literary nonfiction (especially the essay), sample contemporary authors of the genre, write critical commentary on works we read, and compose personal essays of our own. The course is not exclusively a literary seminar nor a creative writing workshop, but seeks to mix and make connections between these modes, in the tradition of the essay itself. Prerequisites are ENGLISH 110, ENGLISH 225, and completion of the WEPT.

3 hrs

ENGLISH 317  INTRODUCTION TO BRITISH LITERATURE I
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.

3 hrs

ENGLISH 318  BIBLE AS LITERATURE
A critical study of the major portions of the Old and New Testaments and the Apocrypha, with special attention to the development of literature from oral tradition, the literary genres, themes and archetypes represented in the collection, and the diction and style which have influenced later literature. Consideration also of the relation of Biblical literature to the historical, religious, and cultural milieu of the ancient Near East.

3 hrs

ENGLISH 319  MYTH AND LITERATURE
A study of classical myth including readings from Homer to Ovid, analysis of selected myths in later literature, art and music, and a study of contemporary definitions and approaches to myth.

3-4 hrs

ENGLISH 320  STRUCTURE OF ENGLISH
Not a remedial grammar course. Methods of linguistic inquiry and grammatical description. Study of traditional and modern schools of syntax, especially transformational grammar. Practice describing the structure of sentences. Application to the teaching of grammar in high schools.

3 hrs

ENGLISH 321  AMERICAN LITERATURE II
A survey of American literature and culture from 1865 to the present. This course will cover a range of authors, several genres, and culture forms, which may include fiction, poetry, drama, autobiography, essay, lyrics, and film.

3 hrs

ENGLISH 323  SHAKESPEARE
An intensive critical study of William Shakespeare’s writings in various contexts (historical, social, political, literary, contemporary, for example). Readings will encompass at least eight plays and will include at least one comedy, history, tragedy, and romance. Required of all English majors.

3 hrs
ENGLISH 325  ARTHURIAN LEGENDS  
Focusing on writers such as Marie de France, Chrétien de Troyes, Sir Thomas Malory, Alfred, Lord Tennyson, Sara Teasdale, Bernard Malamud, and Marion Zimmer Bradley, this course examines the legend of King Arthur and his Round Table as a recurring myth, repeatedly manifested in time through literature, art, history, music, and film. Prerequisite: None

3 hrs

ENGLISH 326  MODERN AND CONTEMPORARY IRISH LITERATURE  
This course examines a range of texts written by Irish-born writers from the end of the nineteenth century on. While it is likely the course will include texts by the most famous Irish writers, such as Yeats, Joyce, Beckett, Ó'Brien, Heaney, and Friel, course materials will vary from semester to semester and may focus on a specific genre, historical period, or area of interest. Offered: On Demand

3 hrs

ENGLISH 327  INTRODUCTION TO BRITISH LITERATURE II  
A survey of British Literature and culture of the Romantic, Victorian, and Modernist periods, this course will cover several genres including at least one novel from each period. Required of all English majors. Offered: Every semester

3 hrs

ENGLISH 329  FILM AS ART  
An application and formulation of critical approaches to the major artistic achievements of the important creators of this modern aesthetic form -- D.W. Griffith, Chaplin, Hitchcock, Bergman, Einstein, Kubrick.

3 hrs

ENGLISH 330  HISTORY OF THE ENGLISH LANGUAGE  
The study of English beginning with the Indo-European language family up to and including varieties of English spoken around the world today. Both outer history and the inner history of phonology, morphology, syntax, and lexicon will be addressed.

3 hrs

ENGLISH 331  AFRICAN AMERICAN LITERATURE I  
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.

3 hrs

ENGLISH 332  AFRICAN AMERICAN NOVEL  
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

3 hrs

ENGLISH 333  AFRICAN AMERICAN LITERATURE II  
A survey of African American literature from its beginnings to World War I. This course will cover a range of authors, several genres, and culture forms, which may include fiction, poetry, drama, autobiography, essay, oral, contact and/or slave narratives, folklore, and songs.

3 hrs

ENGLISH 336  CONTEMPORARY AMERICAN LITERATURE  
An intensive study of American literature since World War II, concentrating on the profound literary changes following that war, as a new kind of poetry, fiction and drama emerges which chronicles the simultaneous dissolution of old values and the efforts to establish new ones. Writers such as Lowell, Roethke, Ginsberg, Ellison, Salinger, Bellow, Mailer, Baldwin, Flannery O'Connor, Pynchon, Katherine Anne Porter, Heller, Richard Wright, Tennessee Williams, Arthur Miller, and Edward Albee will be considered along with others, as American writing develops in our time.

3 hrs

ENGLISH 340 A  CLASSICAL LITERATURE IN TRANSLATION  
This course will focus on representative authors and works from the Greek and Roman Classical periods, such as Homer, Sophocles, Euripides, Aeschylus, Aristophanes, Plato, the Greek Lyric, Virgil, Horace, Juvenal, Ovid and Plautus.

3-4 hrs

ENGLISH 342  WOMEN AND RHETORIC  
A study of the position of women within the traditions of western rhetoric. Students will examine the rhetorical practices of women as they pursue both public and private goals. Christine de Pizan, Sor Juana Ines de la Cruz, Hannah More, Maria Stewart, Frances Willard, Ida Wells-Barnett, Meridel Le Sueur, and Gloria Anzaldúa are among the female rhetorians who may be studied in this course. Prerequisite: Successful completion of the WEPT. Offered: On Demand

3 hrs

ENGLISH 344 A  WOMEN & LITERARY CULTURE: GENRE FOCUS  
A study of women writers that focuses on genre, i.e., texts that share a common set of conventions. The course will explore the conventions associated with a particular genre in various historical periods and consider the ways in which gender and genre intersect in shaping texts and their interpretation. Prerequisite: Successful completion of the WEPT. Offered: On Demand Restrictions: None

3 hrs

ENGLISH 345  WOMEN AND LITERARY CULTURE: HISTORICAL FOCUS  
A study of women's literary culture in a specific historical period either as broadly defined as Medieval or Renaissance or as narrowly defined as a decade or movement (e.g., 1960's, abolitionist movement). This course includes women writers across multiple boundaries (e.g., national, generic, racial, sexual, socio-economic). Content will change depending on the instructor. Prerequisite: Successful completion of the WEPT

3 hrs
ENGLISH 350  THE 18TH CENTURY NOVEL
A detailed examination of the development of the novel in the 18th-century. The course emphasizes the evolution of the novel from such predecessors as rogue literature, the picaresque story and the romance, due to changing social realities. The novelists studies may include Austen, Behn, Fielding, Godwin, Haywood, Richardson, Smollett, and Sterne. Prerequisite: None Restrictions: None
3 hrs

ENGLISH 351  SPECIAL READINGS
Readings in a period, genre or theme to be selected by the instructor with attention to the needs of students who are interested in literary topics not covered in regular offerings. Proposals for a course in such readings require the approval of the department.
1-3 hrs

ENGLISH 352 P  CRITICAL APPROACHES TO THE SHORT STORY
In this course the student will explore the story as a literary genre. Stories will range from the early masters such as Chekov, Kafka, and Hawthorne through contemporary offerings from Lessing, Mishima, and Achebe. Several critical approaches will be presented including formalism, New Historicism, and race/class/gender criticism. Students will keep a reading journal covering all material read for the course, and will be assessed on the basis of this journal, a mid-term and a final examination. Prerequisites: None.
4 hrs

ENGLISH 353 PW  CRITICAL REVIEW & EVALUATION OF FICTION & FILM (WRITING INTENSIVE)
The weekend component of this block meets one weekend per month for a total of 7-9 contact hours. The goal of the course is to improve students' writing skills along with their ability to read and analyze texts, both literary and cinematic. During the course students will read four novels and a set of critical essays, one for each weekend, which will be followed by viewing and discussing a film adaptation of the novel in class. Various critical approaches will be included in the reading and will be discussed in class in an effort to enable students to apply these critical principles in their own critical essays. Because the class meets only one weekend per month and a process approach to writing is utilized, students will be encouraged to use the facilities of the internet to share drafts of their essays with their peer revision group members and with the instructors during the weeks between class meetings. Students will bring revised drafts of their work to the weekend meeting where a significant amount of class time will be spent in writing workshops. Students will be assessed on the basis of their portfolios of critical writing consisting of four major essays and an extensive cover letter, their reading/viewing journals, and their participation, both in class and in peer response groups. Prerequisites: WRTNG. Offered: 1 weekend/month for 4 months.
4 hrs

ENGLISH 354 P  MASTERPIECES OF FICTION
The goal of this independent study is to provide the student with time and space to read and respond to 7-9 critically acclaimed and classic novels. Students will be allowed to choose the novels they wish to read from a list of 50 that will be provided by the instructors. This course must be taken in conjunction with at least one of the other two courses in this block in order to ensure that the student has exposure to literary theory. Students will be assessed on the basis of their response journal, casual oral examination, and a critical essay. Prerequisites: None.
4 hrs

ENGLISH 355  THE NOVEL BEFORE 1900
Intensive attention to novels in English written before 1900, which may include comparative or analytical studies of genre; critical reception of novels; serialization, gender issues; authors and editors; and valuation. Offered: On demand.
3 hrs

ENGLISH 356  STUDIES IN POETRY
Studies in Poetry: An intensive study of poetry through the examination of a specific topic or the works of particular poets, for instance: Love, Seduction, and Betrayal; Form and Change; Death, Grief, and Consolation; Whitman, Dickinson, and the Soul; Sacred Poetry; Poetry and Metaphysics; The Long Poem; The Comic Poem; Sonnet, Sonnet Sequence and the Lyric; The Voyage; Nature, Self, and the Romantic Poet.
3 hrs

ENGLISH 360  THE MODERN NOVEL
A study of the 20th-century novel, American, British and Continental, with attention to the development of fiction during this century. This course deals with novelists principally active before 1930, such as Conrad, James Joyce, Kafka, Hemingway, Lawrence, Woolf, Mann, Fitzgerald, and others. Offered: Fall.
3 hrs

ENGLISH 365  CONTEMPORARY NOVEL
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.
3 hrs

ENGLISH 375  COLONIAL LITERATURE
An exploration of colonialism through the study of a variety of texts, which may include literary, historical, and theoretical texts. These texts should represent the formation and elaboration of discourses surrounding colonialism. Texts will be drawn from more than one genre and from the metropole as well as multiple colonial contexts. The course will consider several definitions of colonialism and related terms such as empire, imperialism, and nationalism. Prerequisite: None
3 hrs

ENGLISH 376  ANCIENT CONCEPTS OF THE HERO
This course traces the ancient concept of the hero by reading selected ancient works by authors such as Homer, Thucydides, Livy, Plutarch, Caesar, Tacitus, and Sallust. Students will also examine the impact of the ancient concept of the hero on modern literature and art. Also listed as CLASSICS 376
3 hrs

ENGLISH 376  ANCIENT CONCEPTS OF THE HERO
This course traces the ancient concept of the hero by reading selected ancient works by authors such as Homer, Thucydides, Livy, Plutarch, Caesar, Tacitus, and Sallust. Students will also examine the impact of the ancient concept of the hero on modern literature and art. Also listed as ENGLISH 376
3 hrs

ENGLISH 400 CA  CLUSTER COURSE: IMAGES OF THE HUMAN BODY IN RENAISSANCE
Focusing on Renaissance conceptions of the human body, this cluster treats the following topics as they are reflected in Renaissance literature, art, astrology, astronomy, biology, anatomy, medicine and politics: A) The dignity of the human body B) Microcosm and macrocosm C) The human body and the heavens D) Stranger manifestations: freaks and beasts E) The humors F) Disorders of the human body G) The body politic H) The human body as an object of study
ENGLISH 400 CB  ENGLAND KING'S AND SHAKESPEARE'S LITERATURE, HISTORY, FILM
The aim of this cluster course is to study the historical and dramatic personae of selected English kings: John, Richard II, Henry IV, Henry V, Henry VI, Richard III, and Henry VIII. In common
sessions History and English will alternate lectures. The English focus will be on Shakespeare's two tetralogies and individual histories, discussing significant themes, characters and performance
elements. Students will also be asked to familiarize themselves with the critical commentaries on these plays, especially recent theoretical studies about politics and gender construction. Film
versions of the plays will be shown to demonstrate how directorial interpretation influences an audience's perception of these kings and their worlds. In addition to two exams and shorter written
exercises, students will be required to write an interdisciplinary essay. Graduate students will be expected to write longer, more extensively researched papers.

3 hrs

ENGLISH 400 CF  CLUSTER COURSE: COURTS AND CULTURE IN THE MIDDLE AGES
This cluster course offers and interdisciplinary approach to the study of the Middle Ages, Focusing on medieval cultures in Europe. Arranged around a series of themes, the cluster will read a variety
of documentary and literary texts to investigate not only the "high culture" of the courts but also the interactions of people from various social backgrounds in Western Europe. Cross listed with
FRN-LNG 400CF and HISTORY 400CF

3 hrs

ENGLISH 400 CQ  CLUSTER COURSE: SINAI AND OLYMPUS: TWO VIEWS OF MAN AND GOD
An examination of the two distinct views of the universe and the place of man and God in it as reflected in the literature of the Hebrews and the Greeks. A comparison of the various types of
creative expression such as philosophy, historical writing, drama, rhetoric, and law. Readings are in English.

3 hrs

ENGLISH 401 WI  FEATURE WRITING
Survey of the techniques of news feature writing and practical application in writing the news feature, the historical feature, travel, personal feature, etc. Assignments are given each week and
student manuscripts read in class. Prerequisites: ENGLISH 110, 125, and successful completion of the WEPT.

3 hrs

ENGLISH 402  NEWSPAPER EDITING
Practical laboratory experience in newspaper copy editing, simulating actual newsroom problems and practices, with emphasis on handling wire service stories; grammar and newspaper style;
reporter accuracy, fairness, and avoidance of libel; news management; layout and production; headline writing.

3 hrs

ENGLISH 408  HARLEM RENAISSANCE
This course examines the period from 1920 to 1940, known as the Harlem Renaissance, a time of unprecedented literary and cultural creativity by black artists. This course explores a variety of cultural
productions, not only traditional forms of literature such as novels, short stories, plays and poetry, but also nonliterary objects of study such as painting, sculpture, and music.

3 hrs

ENGLISH 410  BLACK WOMEN WRITERS
This course explores the writings of African American Women Writers. The course examines how these writers have interacted with and often revised stereotypical representations of African
American womanhood typically found within canonical and African American male literatures. The course will examine literature (which might include fiction, poetry, autobiography, and drama) of
the nineteenth and twentieth centuries; the majority of the works will be by modern and contemporary authors such as Nella Larsen, Zora Neale Hurston, Toni Morrison, and Terry McMillan. By
placing the works in this sort of cultural and historical context, it will be possible to examine the unique tradition of African American women's writing as well as individual texts. Prerequisite: None.

3 hrs

ENGLISH 412  CHAUCER
Readings from Chaucer's most important works, especially "The Canterbury Tales" and "Troilus and Criseyde" with emphasis on them as types of medieval genres and on the Middle English
language. Prerequisite: ENGLISH 317 or permission of the instructor. This prerequisite applies only to undergraduate students.

3 hrs

ENGLISH 413  RENAISSANCE LITERATURE I
English literature from the time of Wyatt and Surrey to the beginning of the 17th century, including the works of Spenser, Marlowe, Sidney, Shakespeare and others. Prerequisite: ENGLISH 317 or
permission of the instructor. This prerequisite applies only to undergraduate students.

3 hrs

ENGLISH 414  MILTON
A study of Milton's prose and poetry, with special attention to "Paradise Lost". Prerequisite: ENGLISH 317 or permission of the instructor. This prerequisite applies only to undergraduate students.
Offered: On demand.

3 hrs

ENGLISH 415  RESTORATION AND EARLY 18TH-CENTURY BRITISH LITERATURE
British literature from the late 17th-century to the mid 18thcentury. Selected writers may include Addison and Steele, Behn, Congreve, Defoe, Dryden, Finch, Milton, Pope, Rochester, Swift, and
Wortley Montagu. Prerequisites: ENGLISH 317 or permission of instructor. Offered: On demand

3 hrs

ENGLISH 416  THE ROMANTIC PERIOD
An extensive study of selected writers (such as Austen, Barbauld, Byron, Coleridge, Hazlitt, Hemans, Keats, Gilpin, the Shelleys, Wollstonecraft, and Wordsworth) organized around literary themes
and/or cultural issues important to the Romantic period. Prerequisite: ENGLISH 327 or permission of the instructor. This prerequisite applies only to undergraduate students.

3 hrs

ENGLISH 417  MODERN POETRY
Study of works by modernist poets such as Hopkins, Yeats, Frost, Stevens, Williams, Moore, Pound, H.D., Eliot, Millay, Hughes. Offered: On demand.

3 hrs
ENGLISH 418  19TH-CENTURY AMERICAN LITERATURE
An intensive study of either selected major American writers in the 19th-century or of 19th-century literary movements. Prerequisite: ENGLISH 311 or permission of instructor. This prerequisite applies only to undergraduate students.

3 hrs

ENGLISH 422  MEDIEVAL LITERATURE
Western religious and secular verse and prose, to the 15th-century. Late Middle English works are read in the original; all other selections in translation. Prerequisite: ENGLISH 317 or permission of the instructor. This prerequisite applies only to undergraduate students. Offered: On demand.

3 hrs

ENGLISH 423  RENAISSANCE LITERATURE II
English literature from 1600 to the beginning of the Restoration, including the works of Donne, Jonson, Milton and other contemporaries. Prerequisite: ENGLISH 317 or permission of the instructor. This prerequisite applies only to undergraduate students. Offered: On demand.

3 hrs

ENGLISH 425  18TH-CENTURY BRITISH LITERATURE II
British literature in its critical and historical context from 1750 to 1798. The writers studied may include Blake, Burney, Collins, Johnson, and Gray. Prerequisite: ENGLISH 317 or permission of the instructor. This prerequisite applies only to undergraduate students. Offered: On demand.

3 hrs

ENGLISH 426  THE VICTORIAN PERIOD
An intensive study of selected writers (such as Arnold, Braddon, the Brontes, the Brownings, Dickens, Darwin, Eliot, Gaskell, Hardy, Ruskin, and the Rossettis) organized around literary themes and/or cultural issues important to the Victorian period. Prerequisite: ENGLISH 327 or permission of the instructor. This prerequisite applies only to undergraduate students.

3 hrs

ENGLISH 427  CONTEMPORARY POETRY
Study of works by contemporary poets (post World War II), such as Auden, Bishop, Hayden, Berryman, Rukeyser, Larkin, Rich, Plath, Heaney, Boland, Komunyakaa. Offered: On demand.

3 hrs

ENGLISH 428  20TH-CENTURY AMERICAN LITERATURE
An intensive study of either selected major American writers in the 20th-century or of 20th-century literary movements. Prerequisites: ENGLISH 321 or permission of instructor. This prerequisite applies only to undergraduates.

3 hrs

ENGLISH 429  SCREENWRITING I
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.

3 hrs

ENGLISH 430  ADVANCED TECHNICAL WRITING
This course is designed for those who plan to do or teach professional, business or technical writing. Beginning with a brief background in the history of technical writing, the course will deal with current theories and methods of teaching technical and professional writing, and will cover such areas as business usage; technical linguistic problems and theories; the language of contracts, specifications, and other binding documents; and computer-oriented problems. Prerequisite: Successful completion of the WEPT. Offered: Every Semester

3 hrs

ENGLISH 431  18TH-CENTURY BRITISH LITERATURE
British literature from the mid to late 18th century. Selected writers may include Blake, Burney, Collins, Equiano, Fielding, Gray, Johnson, Sheridan, and Wollstonecraft.

3 hrs

ENGLISH 432  ADVANCED CREATIVE WRITING PROSE
A course for advanced students of fiction writing. Open to students who have taken ENGLISH 312 or its equivalent. The class will proceed through analysis of models, discussion of general principles, critique of student work. Students will simultaneously be encouraged to experiment and to refine the form and subjects best suited to their talents. Emphasis will remain on the short story, though there may be units in other forms--novella, film script, the non-fiction essay.

3 hrs

ENGLISH 433  HISTORIES OF WRITING, READING, AND PUBLISHING
A study of selected topics concerning the material practices of writing, reading, and publishing within specific cultural and historical contexts. Issues examined may include authorship, education, information technologies, libraries, literacy, periodicals, popular literature, publishers, and communities of readers. Prerequisite: One appropriate introductory course at the 300 level. Offered: On Demand

3 hrs

ENGLISH 434  POSTCOLONIAL LITERATURE
An exploration of postcolonialism through the study of literary and theoretical texts created by or representing peoples whose historical experience has been decisively shaped by the experience or legacies of colonialism. Texts will be drawn from a variety of genres and from several countries. The course will consider several definitions of postcolonialism and related terms such as cosmopolitanism, hybridity, diaspora, and nationalism. cross-listed with ENGLISH 5534. Offered: On demand

3 hrs
ENGLISH 435 ADVANCED CREATIVE WRITING POETRY
Advanced Creative Writing Poetry. An advanced poetry workshop that includes intensive reading of contemporary poetry and aims at each student creating a portfolio of publishable poems. The focus of the course will vary to address a variety of topics such as metaphor and closure; imitation and the line; form and voice. May be repeated once for credit. Prerequisite: For Undergraduates
Restrictions: ENGLISH 315 or equivalent Offered: On demand
3 hrs

ENGLISH 436 POETIC FORMS
An advanced creative writing course that focuses on intensive study of and practice in metrics and traditional and nonce forms. May be repeated once for credit. Prerequisite: For Undergraduates
Restrictions: ENGLISH 315 or equivalent Offered: On demand
3 hrs

ENGLISH 437 PROSE FORMS
The making of a work of prose requires expertise with the structure of the chosen form, and an understanding of the relationship of form to content. This class teaches the techniques for planning and drafting major prose forms which could include the very-short story, the story, novella, novel, linked-story collection, episodic novel, essay novel, the play, the creative nonfiction book, and others. Students will learn how to create particular prose forms and how to use content as a guide to inventing new forms. We will examine some of the best examples of both traditional and newly invented forms by writers such as Anton Chekhov, Katherine Anne Porter, Tim O’Brien and Sandra Cisneros. Prerequisite: ENGLISH 312 Offered: Each year
3 hrs

ENGLISH 438 THE NEW LETTERS WRITING CONFERENCE
An intensive weekend conference for creative writers of varying genres and levels of experience, published and unpublished -- fiction, poetry, nonfiction, stage and screen. The conference includes creative and interdisciplinary session on writing and publishing, genre-specific workshops, socializing and networking opportunities, and private manuscript consultations. The course of study for two-and three-credit students includes selected reading and post-weekend tutorial time conducted by accomplished, working writers. The conference may be repeated once for credit. Two and three credit students need the instructor’s consent and must have taken a 300-level creative-writing course in the focus genre prior to enrolling. Prerequisites: 2 and 3 credit students must have previous coursework at the 300 level in Creative Writing in the focus genre
1-3 hrs

ENGLISH 440 AMERICAN CULTURE
Texts that offer perspectives on key historical themes of American culture. Texts may be grouped around any culturally significant principle (e.g. region, race, gender, class, ethnicity, religion) or theme (e.g. the mythology of the frontier, marriage and domesticity, the American Dream). The course may be taken twice for credit, providing substantive changes in topics. Prerequisites: ENGLISH 311 and ENGLISH 321 or permission of the instructor. These prerequisites apply only to undergraduate students. Offered: On demand.
3 hrs

ENGLISH 441 GIRLS AND PRINT CULTURE
This course deals with girls’ relationships to the continually evolving print culture. Students will examine various literary representations of girhood by adult writers, explore texts directed at girls (e.g., conduct books, periodicals, textbooks), and study the writing and reading practices of girls themselves.
3 hrs

ENGLISH 445 HISTORY AND PRINCIPLES OF RHETORIC
A study of selected writings of ancient, and modern rhetoricians illustrating key issues in the development of Western discourse theory and practice. Issues examined include the relationships between rhetoric and knowledge, orality and literacy, and rhetoric and poetics. Attention will also be given to the implications of rhetorical theory for modern language instruction. Prerequisites: None. Offered: on demand.
3 hrs

ENGLISH 447 INTRODUCTION TO LITERARY CRITICISM
An introduction to major schools or methods of literary criticism. The first third of the course is an historical overview of criticism from Aristotle to Northrop Frye. The remainder of the semester is devoted to a study of genetic, formalist, mimetic, affective, intertextual, and deconstructionist approaches. Prerequisite: Junior or senior status and six hours of literature.
3 hrs

ENGLISH 448 PROFESSIONAL WRITING PROGRAM EXTERNAL INTERNSHIP
These internships combine academic work with practical experience gained interning at leading communications businesses in the metropolitan area. On the academic side, interns are required to submit work in their chosen communications field for evaluation by the faculty of the Professional Writing Program. On the external side, students gain valuable practical experience in the areas of print and electronic journalism, business communications, technical writing, book publishing and features syndication. Internships are granted on a competitive basis. References are required. No student may be awarded more than one such internship. References and permission of the instructors are required. Prerequisite: None.
1-3 hrs

ENGLISH 449 A PUBLICATION PRACTICUM
This course provides practical experience with New Letters magazine, New Letters on the Air, and BkMk Press in business analysis/reporting, copy-editing, manuscript evaluation, promotion/grant development, library research, market research, and other skills. The practicum is limited to two students per semester, to be chosen on the basis of demonstrated writing and organizational skills. References are required. May be taken for no more than three credit hours over a maximum of two semesters. Permission of the instructors required. Prerequisite: None.
1-3 hrs

ENGLISH 450 SPECIAL READINGS
Intensive individual readings in a field, genre or individual figure to be selected by a student or a group of students in consultation with an instructor willing to direct the project. Generally limited to graduating seniors who have completed the majority of the work for their major. Not open to students in their first semester at UMKC. May be repeated for credit. No more than six hours of independent study (exclusive of ENGLISH 499) may be used to fulfill the 33-hour requirement for the English major. Offered: Every semester. Arrangements must be made prior to registration.
1-3 hrs

ENGLISH 451 SHAKESPEARE COMEDIES AND HISTORIES
A study of Shakespeare’s major comedies and history plays with special emphasis on his dramatic works before 1600. Prerequisites: ENGLISH 317 and ENGLISH 323 or permission of the instructor. These prerequisites apply only to undergraduate students.
3 hrs
ENGLISH 452  EARLY ENGLISH DRAMA
English religious and secular drama prior to Shakespeare. Mystery and morality plays are studied, with emphasis on their literary and social backgrounds. Close reading of such works as "Everyman," The Wakefield Second Shepherd's Play" and "The Spanish Tragedy." Prerequisites: ENGLISH 317 and ENGLISH 323 or permission of the instructor. These prerequisites apply only to undergraduate students. On demand.
3 hrs

ENGLISH 453  MODERN DRAMA, 1880-1945
A study of modern drama: Continental, British, and American, including history and development, critical theory, and literary evaluation. This course will focus on the earlier modern playwrights from Ibsen and Shaw, with special attention to naturalism. Offered: On demand.
3 hrs

ENGLISH 455  STUDIES IN THE NOVEL 1740 - 1900
An intensive study of no more than three major novelists of the eighteen or nineteenth century. The content of the course will change, depending on the instructor. Prerequisite: The completion of six hours of literature or permission of the instructor.
3 hrs

ENGLISH 460  SPECIAL OFFERINGS
The visiting professor who gives this course determines what its content shall be. All aspects of literature and linguistics are within its possible range. On demand.
1-4 hrs

ENGLISH 460A  SPECIAL OFFERINGS
1-4 hrs

ENGLISH 460 PW  WRITTEN DISCOURSE: SPEAKING, WRITING, COMPOSING
Prerequisite: Successful completion of the WEPT (effective FS93).
4 hrs

ENGLISH 461  SHAKESPEARE TRAGEDIES AND ROMANCES
A study of Shakespeare's major tragedies and late romances with special emphasis on his dramatic literature after 1600. Prerequisites: ENGLISH 317 and ENGLISH 323 or permission of the instructor. These prerequisites apply only to undergraduate students. Offered: On demand.
3 hrs

ENGLISH 462  RESTORATION AND 18TH-CENTURY DRAMA
The drama after the restoration of the monarchy and the reopening of the theaters through the 18th-century. Special emphasis is placed on the comedy of manners and the heroic drama in the Restoration and the sentimental comedy in the 18th-century. Includes such playwrights as Dryden, Congreve, Etherege, Wycherley, Steele, Lillo, Cumberland, Sheridan, and Goldsmith. Prerequisite: ENGLISH 317 or permission of the instructor. This prerequisite applies only to undergraduate students. On demand.
3 hrs

ENGLISH 463  CONTEMPORARY DRAMA II
A study of contemporary drama: Continental, British, and American, including history and development, critical theory and literary evaluation. This course will focus on the more recent writers, including the absurdist, with special attention to experimental drama. This course is a continuation of ENGLISH 453. Offered: On demand.
3 hrs

ENGLISH 465  STUDIES IN THE MODERN NOVEL
An intensive study of no more than three major twentieth century novelists. The content of the course will change, depending on the instructor. Prerequisite: The completion of six hours of literature or permission of the instructor.
3 hrs

ENGLISH 470  INTRODUCTION TO DESCRIPTIVE LINGUISTICS
General introduction to linguistics science. Linguistic analysis, structures and change. Language families. Historical reconstruction. Generative grammar. Prerequisite: ENGLISH 310 or permission of instructor. The prerequisite only applies to undergraduate students. Prerequisite: ENGLISH 310. Offered: On demand.
3 hrs

ENGLISH 498  SENIOR SEMINAR ON WRITING IN THE SECONDARY CLASSROOM
This course is intended to help students move from discussions of education & composition theory to classroom research and practice. Students will examine their own language uses, study current composition pedagogy, and undertake action research projects in cooperation with teachers affiliated with the Greater Kansas City Writing Project. In a culminating study, students will compile their action research data and prepare classroom resources based on their findings. ENGLISH 498 is designed for English Secondary Education majors. Other education majors may enroll with instructor's permission. This course is offered fall semester only and cannot be taken for graduate credit. Prerequisite: None Offered: Fall Semester Only
3 hrs

ENGLISH 499  SENIOR TUTORIAL
A three-hour comprehensive reading and research tutorial (to be taken during the student's final semester) leading to the writing of a senior paper. A requirement for all English majors. For regular English majors and those with an emphasis in secondary education, the paper will be a critical or scholarly study of 20-25 pages. For journalism and creative writing students, the paper will be a creative writing project of similar length. Prerequisite: Students must have completed all core requirements before enrolling in this course. Each semester.
3 hrs

ENVIRONMENTAL SCIENCE
ENV-SCI 110 L  UNDERSTANDING THE EARTH LABORATORY
Laboratory and field demonstration and exercises in environmental science. Weekly exercises or field trips. This lab should preferably be taken in the same semester as ENV-SCI 110R. Prerequisite: None Offered: Each semester
2 hrs

ENV-SCI 110 R  UNDERSTANDING THE EARTH
This introductory course surveys the processes that shape our planet. Topics include: plate tectonics and mountain-building, rivers and oceans, atmospheric circulation, weather and climate, and the amazingly complex relationships between life on earth and the physical environment. Prerequisite: None Offered: Each semester

3 hrs

ENV-SCI 210  ISSUES IN ENVIRONMENTAL SCIENCE
Explores important environmental issues such as air and water pollution, water supply, climate change, agriculture and food supply, environmental health, ecosystem disruption, environmental management, ethical, and energy resources. Topics may vary depending on current events. Offered: Fall and Winter

3 hrs

ENV-SCI 310  FIELD EXPERIENCE IN WASTE MANAGEMENT
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: 3rd or instructor's consent Offered: Summer

ENV-SCI 496  ENVIRONMENTAL INTERNSHIP
Students obtain practical experience working for local engineering and environmental firms, or governmental agencies. Specific duties and application requirements will vary depending on the funding organization's needs. Junior or senior standing required for undergraduates. Applicant(s) must be accepted for the position prior to enrollment. Prerequisite: Permission of instructor Offered: Summer, Fall or Winter as available.

1-4 hrs

ENVIRONMENTAL STUDIES

ENV-STDY 430  SOIL AND GROUNDWATER REMEDIATION
Review of basic geoenvironmental concepts. Nature, cause, and occurrence of contaminated soil and groundwater. Principles of remediation, discussion of cleanup goals and various remediation alternatives and technologies. Design a remediation system. Project planning, data requirements, cost considerations, and implementation. A class project is required. Prerequisites: GEOLOGY 335 / GEOG 335 or permission of instructor Offered: Winter

3 hrs

ENV-STDY 499 WI  ENVIRONMENTAL STUDIES PRACTICUM
Students conduct research, participate in discussions, and prepare written reports on selected topics concerning the environment. Prerequisites: Senior standing and successful completion of the WEPT exam. Offered: Winter.

3 hrs

FOREIGN LANGUAGE

FRN-LNG 180  SPECIAL ELEMENTARY FOREIGN LANGUAGES TOPICS I
Instruction in foreign languages at the elementary level. Essentials of grammar, basic conversation and reading, practical vocabulary. May include introduction of new methods of foreign language teaching, special texts, and languages not offered through regular courses. As needed.

2-5 hrs

FRN-LNG 190  SPECIAL ELEMENTARY FOREIGN LANGUAGES TOPICS II
Continuation of Foreign Languages and Literature 180. Prerequisite: Elementary I college-level course or equivalent. As needed.

2-5 hrs

FRN-LNG 280  SPECIAL INTERMEDIATE FOREIGN LANGUAGES TOPICS I
Instruction in foreign languages at the second-year intermediate level. Further development of comprehension and communicative skills. Readings of moderate difficulty and grammar review. May include introduction of new methods of foreign language teaching, special texts and topics, and new languages not offered through regular courses. Prerequisite: Elementary I & II college courses or equivalent. As needed.

2-4 hrs

FRN-LNG 290  SPECIAL INTERMEDIATE FOREIGN LANGUAGES TOPICS II
Continuation of Foreign Languages and Literature 280. Prerequisite: Third semester college level-courses or equivalent. As needed.

2-4 hrs

FRN-LNG 300 CM  CLUSTER COURSE: MEXICO, CENTRAL AMERICA AND THE HUMAN CONDITION
Faculty from at least two different departments (one of which must be a department in the Division of Humanities including history) may determine the topic and syllabus, subject to the approval of the director of Integrated Studies and the departments involved. This special topics course will satisfy the interdisciplinary course requirement for the B.A.

3 hrs

FRN-LNG 300 CS  CLUSTER COURSE: HISTORY OF RUSSIAN CULTURE
Faculty from at least two different departments (one of which must be a department in the Division of Humanities including history) may determine the topic and syllabus, subject to the approval of the director of Integrated Studies and the program's advisory committee in addition to the approval of the departments involved. This special topics course will satisfy the interdisciplinary course requirement for the B.A. Fall/winter.

3 hrs

FRN-LNG 380  SPECIAL TOPICS
Treatment of a particular genre or area of literature or language normally not offered through regular courses. May be repeated for credit when the topic changes. Prerequisite: Permission of instructor. On demand.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRN-LNG 400 CF</td>
<td><strong>COURTS AND CULTURE IN THE MIDDLE AGES</strong></td>
<td>This cluster course offers an interdisciplinary approach to the study of the Middle Ages, focusing on medieval cultures in Europe. Arranged around a series of themes, the cluster will read a variety of documentary and literary texts to investigate not only the “high culture” of the courts but also the interactions of people from various social backgrounds in Western Europe. May be taken for French major with permission of instructor. Cross listed with ENGLISH 400CF and HISTORY 400CF.</td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRN-LNG 400 CI</td>
<td><strong>CIVILISATION:IDENTITY FORMATION IN THE MIDDLE CLASSES</strong></td>
<td>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-à-vis nobles, peasants, workers, “primitives,” and criminals. Class assignments will include historical, literary, theatrical, anthropological, and cinematic sources.</td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRN-LNG 401</td>
<td><strong>LINGUISTICS AND LANGUAGE TEACHING</strong></td>
<td>A survey of issues in linguistics with particular emphasis on areas and applications pertaining to the teaching of foreign languages. Contrastive analysis of the history and structure of Germanic and Romance languages. Examination of social, cultural and biological aspects of language. Prerequisite: Two years of a foreign language at college level and junior/senior standing.</td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRN-LNG 480 A</td>
<td><strong>SPECIAL TOPICS</strong></td>
<td>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.</td>
</tr>
<tr>
<td>FRN-LNG 480</td>
<td><strong>SPECIAL TOPICS</strong></td>
<td>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.</td>
</tr>
<tr>
<td>FRN-LNG 494</td>
<td><strong>METHODS OF TEACHING FOREIGN LANGUAGES</strong></td>
<td>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.</td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRENCH 110</td>
<td><strong>ELEMENTARY FRENCH I</strong></td>
<td>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.</td>
</tr>
<tr>
<td>FRENCH 120</td>
<td><strong>ELEMENTARY FRENCH II</strong></td>
<td>Continuation of FRENCH 110. Every semester. Prerequisite(s): FRENCH 110 or equivalent. Semester Offered: Every Semester.</td>
</tr>
<tr>
<td>FRENCH 211</td>
<td><strong>SECOND YEAR FRENCH I</strong></td>
<td>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.</td>
</tr>
<tr>
<td>FRENCH 221</td>
<td><strong>SECOND YEAR FRENCH II</strong></td>
<td>Continuation of FRENCH 211. Winter.</td>
</tr>
<tr>
<td>FRENCH 250</td>
<td><strong>COMMERCIAL FRENCH</strong></td>
<td>Business practices in correspondence in the French language; special vocabulary of business, trade, banking and administration. Refinement of grammatical and stylistic skills. Subjects treated include price inquiries, quotations, offers, orders, complaints, administrative, banking, and diplomatic correspondence. Prerequisite: FRENCH 221 or equivalent.</td>
</tr>
<tr>
<td>FRENCH 280</td>
<td><strong>SPECIAL INTERMEDIATE FRENCH TOPICS I</strong></td>
<td>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.</td>
</tr>
<tr>
<td>FRENCH 290</td>
<td><strong>SPECIAL INTERMEDIATE FRENCH TOPICS II</strong></td>
<td>Continuation of FRENCH 280. May not be repeated for credit. As needed.</td>
</tr>
</tbody>
</table>
FRENCH 301  INTRODUCTION TO FRENCH LITERATURE
An introduction to the study of different genres of French literature and techniques of criticism. Readings include representative works of major authors from various periods. Strongly recommended for all majors, to be taken before or concurrently with other literature courses. Winter.

3 hrs

FRENCH 303  MASTERPIECES OF FRENCH LITERATURE I
An introduction to the history of French literature from the Middle Ages to 1800 stressing the historical context, the major literary movements, and the development of the various genres. Selected readings of the works of the major authors of the period.

3 hrs

FRENCH 304  MASTERPIECES OF FRENCH LITERATURE II
An introduction to the history of French literature from 1800 to the present stressing historical context, the major literary movements and the developments of the various genres. Selected readings of the works of major authors of the period.

3 hrs

FRENCH 315  INTERMEDIATE CONVERSATION AND COMPOSITION I
Grammar review; practice in speaking and writing French; emphasis on idiomatic usage and practical vocabulary. Required for major. Prerequisite: FRENCH 221 or equivalent. Every fall.

3 hrs

FRENCH 325  INTERMEDIATE CONVERSATION AND COMPOSITION II
Continuation of FRENCH 315. Required for major. Prerequisite: FRENCH 315. Every winter.

3 hrs

FRENCH 340 WI  FRENCH TEXTS IN TRANSLATION
Seminar on French texts in translation. Class will be conducted in English and no knowledge of French is necessary. May be taken for major credit upon prior consultation with the instructor. Prerequisites: ENGLISH 110, ENGLISH 225, and WEPT

3 hrs

FRENCH 350  FRENCH CIVILIZATION I
An historical introduction to French civilization and culture with emphasis on historical, social and cultural development. Prerequisites: FRENCH 221 or equivalent.

3 hrs

FRENCH 351  INTRODUCTION TO FRENCH PHONETICS
Drill and practice in pronunciation in class and in language laboratory. Prerequisite: FRENCH 221 or equivalent or permission of instructor.

3 hrs

FRENCH 352  FRENCH CIVILIZATION II: CONTEMPORARY FRENCH CIVILIZATION
An in-depth survey of contemporary French culture, including major historical events and movements that have shaped modern France, as well as geography, the political system, family life and education, economics, etc. Prerequisites: FRENCH 221 or the equivalent.

3 hrs

FRENCH 354  FRENCH CIVILIZATION III: LYON, CROSSROADS OF FRANCE AND EUROPE
An introduction to French culture and civilization through the history, geography, culture and arts of Lyon and its region. Offered during the Study Abroad Program in Lyon. Offered: Summer semester.

3 hrs

FRENCH 380  SPECIAL TOPICS
Treatment of a particular genre or area of literature or language normally not offered through regular courses. May be repeated for credit when the topic changes. Prerequisite: Permission of the instructor. On demand.

1-3 hrs

FRENCH 412  17TH CENTURY FRENCH LITERATURE
Selected readings in the literature of the 17th century, with an emphasis on non-dramatic works. Also offered as FRENCH 5512.

3 hrs

FRENCH 413  18TH-CENTURY FRENCH LITERATURE
Emphasis on philosophical and social significance. Authors may include Marivaux, Beaumarchais, Le Sage, L'Abbe Prevost, Montesquieu, Rousseau, Diderot. Also offered as FRENCH 5513.

3 hrs

FRENCH 414  MEDIEVAL LITERATURE
Selected readings in various genres including epic, romance, theater and lyric. Emphasis will be placed on the intertextual relations and the cultural and historical context surrounding text production in the Middle Ages. Also offered as FRENCH 5514.

3 hrs

FRENCH 415  ADVANCED CONVERSATION AND COMPOSITION I
Practice in speaking and writing French, with attention to the elements of style. Continued in FRENCH 425. First semester required of all majors and second semester recommended. Both semesters required of prospective high school teachers. Either or both semesters may be repeated with the consent of the instructor and the department chairman. No more than six hours credit may be applied towards a degree. Prerequisite: FRENCH 325. Fall.
3 hrs

FRENCH 417  16TH-CENTURY FRENCH LITERATURE
Selected readings in prose and poetry from Marot through Astree. Authors may include Rabelais, Ronsard, du Bellay, Montaigne, Marguerite de Navarre. Also offered as FRENCH 5517.

3 hrs

FRENCH 425  ADVANCED CONVERSATION AND COMPOSITION II
Continuation of FRENCH 415. See FRENCH 415. Required for teacher certification in French. Prerequisite: FRENCH 415. Winter.

3 hrs

FRENCH 426  20TH-CENTURY FRENCH LITERATURE
Selected readings from the Belle Epoque to the contemporary period. Also offered as FRENCH 5526.

3 hrs

FRENCH 435  DIRECTED DISCUSSIONS IN ADVANCED FRENCH
Directed discussion on contemporary French culture. The discussions cover a wide range of topics on modern France: social, intellectual and cultural aspects. Students will participate and have the opportunity to observe and react within a cultural frame of reference. Open to advanced students of French and to teachers of the language for in-service training.

3 hrs

FRENCH 440  MEDIEVAL ROMANCE
The various movements of French medieval romance from the 12th through 15th centuries with an emphasis on the 12th and 13th centuries. Analysis of literary technique and socio-historical context will be stressed. No knowledge of Old French is assumed. Also offered as FRENCH 5540.

3 hrs

FRENCH 444  RENAISSANCE POETRY
French poetry from the Grand Rhetoriqueurs through the Pleiade. Study of poetic forms, major poets and schools, and different approaches to analyzing poetry. Also offered as FRENCH 5544. Prerequisites: FRENCH 221 or the equivalent.

3 hrs

FRENCH 445  EPISTOLARITY AND THE NOVEL
Explorations of the genre through the analysis of 17th-and 18-century French novels. Introduced by a theoretical review. Also offered as FRENCH 5545.

3 hrs

FRENCH 446  17TH-CENTURY FRENCH DRAMA
The classical period: Emphasis on Corneille, Racine and Moliere. Also offered as FRENCH 5546.

3 hrs

FRENCH 447  19TH-CENTURY FRENCH POETRY
The study of the poetry and dominant poetic movements of the 19th-century, with special attention given to different approaches to its analysis. Also offered as FRENCH 5547.

3 hrs

FRENCH 448  20TH-CENTURY FRENCH THEATER
Analysis of major currents of French theater of the 20th-Century, with emphasis upon the postwar period and its movements. Also offered as FRENCH 5548.

3 hrs

FRENCH 452  MEDIEVAL POETRY
A study of medieval poetry including religious and secular poetry, Provençal and Old French lyric, the influence of poetry in other genres such as romance and theater, later medieval poetry of the 14th and 15th centuries, as well as a discussion of the origins of the lyric. Also offered as FRENCH 5552. Prerequisites: FRENCH 221 or the equivalent.

3 hrs

FRENCH 454  INTELLECTUAL ORIGINS OF THE FRENCH REVOLUTION
Study of philosophical and political texts by Montesquieu, Rousseau, Voltaire, Diderot, etc. on government, society, language, freedom and equality. Critical study of the Enlightenment. Also offered as FRENCH 5554.

3 hrs

FRENCH 455  FIN-DE-SIECLE AND BELLE EPOQUE
Study of the literary, cultural and historical context of this time period in French history, for example: Symbolism, Decadence, and the years 1900-1914. Also offered as FRENCH 5555.

3 hrs

FRENCH 456  20TH-CENTURY FRENCH POETRY
The study of 20th-century poetry with special consideration given to different approaches to its analysis. Also offered as FRENCH 5556.

3 hrs

FRENCH 457  20TH-CENTURY FRENCH NARRATIVE
The analysis of major currents in French 20th century narrative, especially fiction and film. Courses will be organized around narrative themes or historical events and will include social and cultural components. Also offered as FRENCH 5557.
FRENCH 463  19Th-Century French Fiction
Studies in the birth, development and variation of French Romanticism. Readings include de Stael, Senancour, Constant, Hugo, Stendhal and Merimee. The advent of realism and naturalism in France. Readings include Balzac, Flaubert, Daudet, De Maupassant, and Zola. Also offered as FRENCH 5563.

3 hrs

FRENCH 470  Studies In Critical Thought
Various currents of 20th-century literary criticism and their political and historical contexts. Also offered as FRENCH 5570.

3 hrs

FRENCH 471  Autobiography
Analysis of autobiographies and autobiographical texts such as diaries and memoirs together with theoretical texts on the genre. The concentration on different periods or issues may change from semester to semester, i.e., the art of autobiography as practiced by 20th-century writers, especially women. Also offered as FRENCH 5571.

3 hrs

FRENCH 472  Francophone Studies
Study of different national Francophone literatures. Reading may include writers from Quebec, Haiti, Africa, Louisiana, Vietnam, the French Indies, etc. Also offered as FRENCH 5572.

3 hrs

FRENCH 480  Special Topics
Each time this course is offered a particular author, genre or area of literature will be treated. Topics will be announced in advance. May be repeated for credit when the topic changes. Permission of the department chairman is required. On demand.

1-3 hrs

FRENCH 490  Special Readings
Intensive readings in field or literary figure to be selected by the student in consultation with the instructor. Available, by permission only, to advanced students of French; available only when student cannot take regularly scheduled courses. Prerequisite: 3.0 GPA. On demand.

1-3 hrs

FRENCH 499  Senior Seminar (Capstone)
Required for major. Covers seminal works of French literature in their historical and cultural context. Course content varies, but will include such elements as geography, politics, folklore, history of the language, architecture, art and music. To be taken during final Winter Semester of residence. Prerequisite: 21 hours beyond first year. Offered: Winter Semester.

3 hrs

GEOG 105  Introduction To The Elements Of Geography
A survey of major elements of physical and human geography, with a concise overview of the world's regions. Emphasis on global relationships and distributions, both environmental and cultural. Climates, natural vegetation, land forms, cultural origins and diffusions, economic patterns. Fall and winter.

3 hrs

GEOG 150  Introduction To Physical Geography
This course is an introduction to the study of the natural environmental systems of earth—the atmosphere, the hydrosphere, the biosphere, and the lithosphere. The primary objective of the course is to provide a broad overview of these systems at a global scale. This overview will entail descriptions of natural systems and the variations they exhibit both from place to place and through time. It will also entail explaining how natural systems operate and interact with each other, thereby providing a necessary foundation for understanding the tremendously diverse physical geography of earth. Applies to natural science requirement. Prerequisites: None. Offered: Fall semester.

3 hrs

GEOG 200  World Geography I
A study of Europe, Australia and New Zealand, Anglo America, and Latin America organized around the basic concepts of human-environmental relationships and spatial interaction. Fall.

3 hrs

GEOG 202  World Geography II
A study of Russia and the other former Soviet Republics, the Middle East, the Orient, Africa, and the Pacific World organized around the basic geographic concepts of human-environmental relationships and spatial interaction. Offered: Winter

3 hrs

GEOG 203  Introduction To Geographic Information Systems
An introductory course covering the basic principles of geographic information systems focusing on such software programs as ARC-INFO and ARC-VIEW. Offered: Fall and Winter

4 hrs

GEOG 210  Human Geography
A study of the geographical underpinnings and distribution of the main elements of culture, including population patterns, language, religion, political territorial organization, settlement, and economic livelihood. The environmental settings, geographic origins, diffusion, and geographic interrelationships of these culture traits are emphasized. Offered: On demand

3 hrs
GEOG 215  INTRODUCTION TO WEATHER AND CLIMATE
Overview of the basic components of the climate system. Emphasis is on the basic physical processes that determine global and regional climate and the linkages between components of the climate system. The theme throughout the course will be importance of climate as one of the major forcing mechanisms in environmental change. Both human-induced and natural climate variability will be covered. Three hours of lecture and two hours of laboratory per week. Offered: Fall

4 hrs

GEOG 300  INTERDISCIPLINARY STUDIES/CLUSTER COURSES

3 hrs

GEOG 309  URBAN GEOGRAPHY
Historical development, morphology and functions of urban places, including intercity relationships and the relationship between cities and their hinterlands; emphasis on American cities. Offered: On Demand.

3 hrs

GEOG 311  ECONOMIC GEOGRAPHY
A systematic study of the modern world economy that includes discussion of the location of production and consumption, the nature and role of multinational enterprises in trade, resource limitations to growth, and cultural responses to globalization. Three hours lecture, discussion a week. Offered: On demand

3 hrs

GEOG 314  PRINCIPLES OF GEOMORPHOLOGY
Explores the processes that shape the earth’s surface. Focuses on the development and description of fluvial, glacial, eolian, and coastal landforms. Studies the influence of tectonic and climatic factors. Three hours lecture and two hours lab per week. Field trip. Prerequisite: ENV-SCI 111R or GEOLOGY 220; GEOLOGY 230 suggested. Offered: On demand.

4 hrs

GEOG 317  CARTOGRAPHY
Design and preparation, by hand and computer, of informative, effective, and attractive maps and other graphics for various geographical purposes, especially term papers, thesis, and public presentations. Lectures, discussion, and laboratory. Offered: On demand.

4 hrs

GEOG 319  DESCRIPTIVE AND SYNOPTIC METEOROLOGY
Synoptic weather observations, air mass analysis, analysis of frontal systems, weather disturbances, preparation of weather charts and diagrams used in synoptic meteorology and forecasting. Prerequisites: ENV-SCI 111R or GEOLOGY 220 Offered: On demand

4 hrs

GEOG 329  WORLD POLITICAL GEOGRAPHY
An analysis of the influence of geographic factors (both physical and human) on the economic and political relationships of the nations of the world. Emphasis will be placed on population size and political viability of states, boundaries and frontiers as limits of national space, problems related to the spatial integration of states, and the independence and interdependence of states within the larger world political system. Offered: On demand

3 hrs

GEOG 332  CULTURAL GEOGRAPHY
A study of the distribution and interpretation of cultural patterns throughout the world. Examined are material and non-material elements of culture such as settlement, land use, technology and belief systems. The geographic origins and diffusion of culture traits are emphasized. On demand.

3 hrs

GEOG 333  GEOGRAPHIC ELEMENTS OF URBAN PLANNING
Analysis of the changing form and structure of urban places from a planning viewpoint. The focus will be on land-use trends on both the intraurban and interurban levels. Covered will be such topics as planning for urban transportation, new towns, land-use planning, urban renewal, and environmental planning. Offered: On demand

3 hrs

GEOG 335  INTRODUCTION TO WASTE MANAGEMENT

3 hrs

GEOG 336  PRINCIPLES OF SOIL SCIENCE
Study of genesis, evolution, distribution and classification of soils. Analysis of soil-forming materials and processes. Three hours lecture, discussion and laboratory a week. Prerequisites: ENV-SCI 110R; GEOLOGY 220 required; Offered: On demand Restrictions: college chemistry recommended.

3 hrs

GEOG 340  REGIONAL GEOGRAPHY OF THE UNITED STATES AND CANADA
A systematic study of the physical and human geography of the United States and Canada. Emphasis is placed on the physical setting and the influence of the people on the land. Contemporary issues such as public vs. private land, water resources and energy resource distribution are emphasized. Offered: On demand.

3 hrs

GEOG 341  REGIONAL GEOGRAPHY OF SOUTH AMERICA
A study of the physical and human geography of South America, with an emphasis on cultural processes and the historical record. Contemporary issues such as economic development, trade, urbanization, and geopolitical conflicts are discussed. Offered: On demand
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 342</td>
<td>Regional Geography of Mexico, Central America and the Caribbean</td>
<td>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</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Regional Geography of Europe</td>
<td>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</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GEOG 351</td>
<td>Regional Geography of the Middle East</td>
<td>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</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GEOG 352</td>
<td>Regional Geography of Southeast Asia</td>
<td>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</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GEOG 355</td>
<td>Regional Geography of Africa</td>
<td>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</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GEOG 360</td>
<td>Principles of Biogeography</td>
<td>Distribution of plants and animals on earth, emphasizing variations in the physical environment over space and time, the concept of the biological niche, the phenomena of speciation and extinction, island biogeography, and recent theoretical developments relating to species disjunctions (vicariance biogeography). Prerequisite: ENV-SCI 110R. Offered: On demand.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GEOG 398</td>
<td>Field Trip</td>
<td>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.</td>
<td>1 hr</td>
</tr>
<tr>
<td>GEOG 401</td>
<td>Advanced Geographic Information Science</td>
<td>This course is designed for the students knowledgeable in the fundamentals of geographic information systems, who wish to gain expertise in advanced topics and applications in geographic information systems, remote sensing, and related environmental informatics. Classes are organized to encourage active learning. Students are encouraged and guided to develop their research projects by integrating related techniques of geographic information science. Prerequisite: GEOG 203 Offered: On demand</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GEOG 402</td>
<td>Environmental Remote Sensing and Digital Image Analysis</td>
<td>This course will provide students with innovative techniques for landscape-level environmental analysis, geographic and geological studies, earth science research, and environmental resources management using remotely sensed data including satellite images. Students will be taught basic remote sensing concepts and technical skills, including energy radiative transfer processes in remote sensing, sensors and resolutions, computer-based image processing and classification, and remote sensing/GIS integration. Prerequisite: GEOG 203 (formerly GEOG 401) or permission of instructor. Offered: On Demand</td>
<td>4 hrs</td>
</tr>
<tr>
<td>GEOG 403</td>
<td>History and Philosophy of Geoscience</td>
<td>A survey of geoscientific thought since antiquity. The substance of geography, geology, and environmental studies will be sought primarily in scholarly treatise and formal analytical systems including cartography, but the course also addresses geoscientific principles emerging from the history of environment, government, law, economy, religion, literature, and material culture. Readings, lectures, discussions, research, writing. Also offered as GEOG 503wi. Offered: on demand</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GEOG 404</td>
<td>Biogeography and Landscape Ecology</td>
<td>Principles and applications of biogeography and landscape ecology, emphasizing distribution of major ecosystems and related plants and animal species on earth, biodiversity, landscape patterns and processes, and physical, biological, and human interactions. The course explores ecosystem and landscape analyses using advanced GIS, remote sensing, and spatial modeling methods for real problem solving in environmental and biological research, ecosystem conservation, and urban planning and studies. Prerequisites: GEOG 203, GEOG 402 / GEOG 502 or permission of instructor. Offered: On demand</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GEOG 406</td>
<td>Global Environmental Change</td>
<td>This course will examine the current rates of global environmental change and potential causes in the context of Earth's natural climate variability. The course will follow a seminar format. Students will read and discuss published articles on current and emerging theories of forcing mechanisms in the Earth's systems.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GEOG 410</td>
<td>Landscape, Language, Literature, and Law</td>
<td>An examination of the geographic underpinnings and implications of languages, literatures, and jurisprudence. The course explores languages' historic rootedness in the interactions between human beings and their surroundings; the varying geographic expressiveness and discrimination of languages; the effect and significance of literary evocations of landscapes; and the cultural and environmental geographic content of the language of law. Readings, lectures, discussions, writing. Prerequisite: Permission of the instructor. Offered: On demand. Also offered as GEOG 5510.</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>
3 hrs

**GEOG 415  HISTORY AND PHILOSOPHY OF CARTOGRAPHY**
An examination of the techniques, assumptions, psychology, and cultural implications of mapping from the Stone Age to the age of satellites and the computerized Geographic Information System. Readings, lectures, discussions, writing. Offered: On demand. Also offered as GEOG 5515.

3 hrs

**GEOG 417  SPECIAL TOPICS**
Individual research and study of a selected topic in geography, meteorology or earth science. Prerequisites: Approval of instructor. On demand.

1-3 hrs

**GEOG 426  PALEOECOLOGY: MICROFOSSILS AND CLIMATE CHANGE**
Paleoecology will focus on questions addressing past environments and past climates based on the ecology of microfossils. Micro-organisms are very sensitive to a wide variety of environmental conditions including temperature, precipitation, hydrology, water chemistry, salinity, habitat, and pollution. The fossil remains of these organisms are used as proxy indicators for reconstructing past environmental conditions, climate change, vegetation dynamics, and human impacts. Students will have the opportunity to process microfossils and make interpretations based on analysis data. Prerequisite: Permission of Instructor Offered: Every other Fall semester.

3 hrs

**GEOG 430  ENERGY RESOURCES**
Theories regarding the origins of energy resources with emphasis on hydrocarbon fuels. Practical problems of exploration, production, storage and conservation of energy resources. Discussion of estimated national and worldwide energy supplies, reserves and alternate sources in relation to environmental concerns. Three hours lecture, occasional field trips. Prerequisite(s): ENV-SCI 110R; GEOLOGY 220 recommended. Offered: On demand.

3 hrs

**GEOG 435  GEOARCHAEOLOGY**
This course examines geomorphological and archaeological methods used in reconstructing sites, settlement patterns, and paleoenvironments. Explores dating methods, soils, and stratigraphy as tools for studying landscape evolution and human occupation. Prerequisites: GEOG 314 or GEOLOGY 314, or permission of instructor. Offered: On demand.

3 hrs

**GEOG 437  POPULATION GEOGRAPHY**
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.

3 hrs

**GEOG 442  QUATERNARY ENVIRONMENTS**
This course reviews earth climatic history and focuses on major mechanisms for global and regional climate change. Methods of paleoclimatic reconstruction are examined, including analysis of proxy data and climate modeling. Application of these methods toward prediction of future climate change is also explored. Also offered as GEOG 5542. Prerequisite(s): GEOG 314 or GEOLOGY 314, and GEOG 215, or permission of instructor. Offered: On demand.

3 hrs

**GEOG 444  GEO-COMPUTATION FOR EARTH AND ENVIRONMENTAL SCIENCES**
This course will focus on advanced computation methods for the analysis and modeling of complex and often non-deterministic processes in the spatial and environmental sciences. Students will be introduced to innovative techniques for analyzing large datasets with attribute spaces of very high dimensionality, including hyper-spectral remote sensing data. Prerequisite: GEOG 402 or permission of instructor Offered: On demand

3 hrs

**GEOG 448  SATELLITE CLIMATOLOGY**
Use of satellite observations to study the climate system. Discussions consider the development of satellite climatology, sensors, platforms and methodologies used to estimate climate variables from radiance measurements. Aspects of climate that are emphasized include cloud climatologies, cloud systems, atmospheric moisture, radiation budget, and land-surface conditions. Prerequisites: GEOG 215 or GEOG 319, or permission of instructor Offered: On demand.

3 hrs

**GEOG 450  GIS FUNDAMENTALS FOR RESEARCH APPLICATIONS**
This course will address the needs of upper level undergraduate and graduate students who desire to learn and apply fundamental Geographic Information Systems concepts and techniques for their research projects. This course will draw on the content of the Introductory GIS course offered by the department but will also be flexible such that the individual needs or interest of students can be met through guided reading and/or tailored laboratory sessions. The Department of Geosciences GIS computer laboratory, with a variety of GIS and Remote Sensing software, will be available for this course. Prerequisite: Permission by instructor Offered: Winter Restrictions: Only for upper level undergraduate and graduate students

4 hrs

**GEOG 460  TRANSPORTATION GEOGRAPHY**
Relation between transportation and spatial organization, selected analytical models dealing with traffic demand, network configuration, and allocation of transport facilities; application to specific problem areas including commuting. Seminar with discussions of briefs and term paper. Offered: On demand.

3 hrs

**GEOG 489  TUTORING IN GEOGRAPHY**
Geography majors in their senior year may enroll for 1-3 hours tutoring for credit. This will entail working as a tutor, under the direction of the faculty, to students in the 100 to 200-level courses in the department who either have inadequate background preparation in environment studies and geography or are identified by the instructor as needing tutorial help. Tutoring will be on a credit/non-credit basis. Prerequisite: Permission of instructor Offered: On demand

1-3 hrs

**GEOG 496  GEOGRAPHY INTERNSHIP**
Students obtain directed practical experience working with non-profits, governments, or private enterprises. Duties will vary based on contractual agreement between the student, host organization, and the professor. Students should have junior standing or higher, and the instructor's permission. Prerequisite: Permission of the instructor Offered: Summer, Fall, or Winter as available

**1-6 hrs**

**GEOG 499 WI GEOPHYSICAL SEMINAR**

Students critique geographic research and prepare a paper and an oral presentation on an approved topic. Prerequisite: Senior standing and successful completion of the WEPT Offered: Winter

**3 hrs**

**GEOLOGY**

**GEOLOGY 120 ENERGY SCIENCE**

An introductory foundation course on energy in all its guises, the physical laws and factors which control it and the availability of energy for human use. Includes consideration of resources, reserves, conversion efficiencies, conservation, and other relevant factors. Conventional sources and nonconventional alternatives such as solar, wind, water, geothermal, biomass and fusion will be addressed. Lecture and discussions. No prerequisites. Offered: On demand

**3 hrs**

**GEOLOGY 220 GENERAL GEOLOGY**

Origin and composition of the primary earth materials; agents of erosion, transportation, sedimentation and metamorphism; modes of occurrence of common minerals and analysis of the common crustal structures. Field trips. Three hours lecture and discussion. Semester offered: Fall and Winter

**3 hrs**

**GEOLOGY 220 L GENERAL GEOLOGY LABORATORY**

Laboratory and field investigations of principles of the geology designed to complement the topics covered in GEOLOGY 220 through the use of inquiry-based investigations in the laboratory and field. Prerequisite: Co-requisite or Prerequisite GEOLOGY 220. Semester offered: Fall and Winter

**2 hrs**

**GEOLOGY 230 HISTORICAL GEOLOGY**

An interpretation of the biological and physical history of the earth. Three hours lecture, discussion and two hours laboratory a week. Field trips. Prerequisites: GEOLOGY 220 or permission of instructor Offered: On demand

**4 hrs**

**GEOLOGY 250 FIELD METHODS IN EARTH AND ENVIRONMENTAL SCIENCE**

This course will provide students with an introductory, inquiry-based learning experience that focuses on the application of field methods for understanding surface and subsurface earth processes and environmental issues. Students will collect field data at off-campus sites, conduct periodic monitoring, and analyze samples using departmental instrumentation. Students will work on collaborative projects and will present their results. Class will meet once a week for three hours. Prerequisite: GEOLOGY 101 and GEOLOGY 101L or ENV-SCI 111 and ENV-SCI 111L. GEOLOGY 220 and GEOLOGY 220L or ENV-SCI 110R and ENV-SCI 110L Offered: Fall

**3 hrs**

**GEOLOGY 251 FIELD METHODS IN EARTH AND ENVIRONMENTAL SCIENCE: OFF-CAMPUS**

This course will provide students with an introductory, inquiry-based learning experience that focuses on the application of field methods for understanding surface and subsurface earth processes and environmental issues. Students will collect field data at off-campus sites, conduct periodic monitoring, and analyze samples using departmental instrumentation. Students will work on collaborative projects and will present their results. Class will meet at an off campus location during break (added cost) plus have four on campus meetings. Prerequisites: GEOLOGY 220 and GEOLOGY 220L or ENV-SCI 110R and ENV-SCI 110L

**3 hrs**

**GEOLOGY 302 ENVIRONMENTAL GEOLOGY**

An introduction to the role and scope of geological processes in the light of contemporary urban society. Lecture and discussion periods include topics such as air and water pollution, earth movements, waste disposal, mineral, energy and water resources, construction engineering, and effects caused by human activities. Three hours lecture, discussion per week. Semester offered: Fall and Winter

**3 hrs**

**GEOLOGY 312 MINERALOGY**

Introduction to crystallography, mineral chemistry and the systematic classification and identification of minerals. Prerequisites: GEOLOGY 220 and CHEM 212R. Three hour lecture and discussion with two hours laboratory a week. Fall

**4 hrs**

**GEOLOGY 313 EVOLUTION AND THE GEOLOGIC RECORD**

An introduction to the history of life by studying the geologic record. Students will examine major features of the fossil record including: invertebrates, vertebrates, and plants. Students explore what the fossil record tells us about geologic time, evolution, past environments and distributions of organisms. Three hours of lecture and two hours of laboratory a week. The course will include field trips to collect and interpret fossils and paleoenvironments. Prerequisites: None Offered: Winter

**4 hrs**

**GEOLOGY 314 PRINCIPLES OF GEOMORPHOLOGY**

Explores the processes that shape the earth's surface. Focuses on the development and description of fluvial, glacial, eolian, and coastal landforms. Studies the influence of tectonic and climatic factors. Three hours lecture and two hours lab per week. Field trip. Prerequisite(s): ENV-SCI 110R; or GEOLOGY 220; Offered: On demand

**4 hrs**

**GEOLOGY 325 SEDIMENTOLOGY/STRATIGRAPHY**

Study of sedimentary rocks with special emphasis given to hand specimen identification based on mineral composition and textural features. Characteristics of sediments, transportation and environment of sediment deposition. Principles of stratigraphy, facies analysis and interpretation. Measurement and description of stratified rocks. Three hours lecture and two hours lab per week. Field trips. Prerequisite: GEOLOGY 220 Offered: Fall

**4 hrs**
GEOLOGY 326 CZ  
ARCHAEOLOGY OF ANCIENT DISASTERS
Remarkable human achievements are revealed by archaeological research, but the human past was frequently shaped as well by disasters of natural and human origin. Drawing on case studies that include data from the geosciences, archaeological excavations, and historical sources, this class examines how earth processes, the biosphere, and human cultural behavior were all sources of catastrophe. We begin with the geological context of disaster, including earthquakes, volcanic eruptions, climate change, and soil depletion. Next, we examine how ancient societies responded to disease, an ever present threat from the biological environment. Finally, we look at how ancient human groups were changed by stresses of cultural origin, including overpopulation, depletion of vital resources, and warfare. The study of ancient disasters not only gives us a wider understanding of human history, it may offer lessons for coping with future catastrophes. Also cross listed as CLASSICS 300CZ. Offered: Winter Semester

3 hrs

GEOLOGY 335  
INTRODUCTION TO WASTE MANAGEMENT

3 hrs

GEOLOGY 342  
IGNEOUS AND METAMORPHIC PETROLOGY
Introduction to the principles governing the classification, occurrence and origins of igneous and metamorphic rocks. Prerequisite: GEOLOGY 312. Three hours lecture and discussion with two hours laboratory a week. Winter.

4 hrs

GEOLOGY 342 R  
ELECTRICAL METHODS IN NEAR SURFACE GEOPHYSICS
Fundamental theory and near-surface applications of the 'electrical' geophysical methods; (1) electrical resistivity, (2) electromagnetics, (3) ground penetrating radar, and (4) induced polarization. Emphasis will be placed on the use of these methods in environmental and engineering investigations, addressing such issues as water resources, contaminant transport, geotechnical properties and archaeological protection. Course will include a field component illustrating application of selected technique to a local environmental problem. Prerequisites: Permission of Instructor Offered: On demand

3 hrs

GEOLOGY 350  
EARTH STRUCTURES AND TECTONICS
This course is designed to teach students the basic techniques and approaches for problem solving in structural geology. The course will cover the fundamentals of crustal deformation and discuss joints, faulted and folded rocks in their plate tectonic context. Two hours of lectures and three hours of laboratory a week. Course will include local field trips and one weekend field trip. Prerequisite: GEOLOGY 220, PHYSICS 210 or PHYSICS 240. Offered: Winter

4 hrs

GEOLOGY 370 R  
HYDROGEOLOGY
Geology and hydrologic factors controlling the occurrence, movement, quality, recovery and development of water supply and distribution. Problems relating to urbanization of flood plains. Prerequisites: Permission of instructor

3 hrs

GEOLOGY 398  
GEOLOGY MIDCONTINENT FIELD TRIP
A study of a selected area of the midcontinent U.S. with emphasis on locations to be visited during a three-day field trip (at the student's expense). An opportunity to observe and study physical features and collect materials. Several scheduled one-hour meetings in addition to field trip. Lectures, discussion and reading assignments provide a background to place the area covered by the field trip into the overall geologic framework of the Midcontinent U.S. Descriptive report or written examination. Limited enrollment. Prerequisite: Junior or senior level. Fall.

1 hr

GEOLOGY 404  
GEOLGY OF FLUIDS
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.

3 hrs

GEOLOGY 411  
MINERAL DEPOSITS
Distribution, origin and environmental implications of extractable resources including non-metallic deposits, ores, and selected energy resources. Prerequisite: Instructor's permission Offered: On Demand

3 hrs

GEOLOGY 412  
GEOLGY AND HAZARDOUS WASTE MANAGEMENT
Nature sources and characterization of hazardous waste; collection, transportation and disposal of hazardous wastes. Fundamentals of toxicology and risk assessment. Application of geologic principles and methods in the assessments and remediation of abandoned hazardous waste sites and contaminated aquifers. Review of selected case histories. Experts from government and private organizations will be invited to deliver guest lectures. An out-of-town field trip to a hazardous waste site is required. Prerequisites: GEOLOGY 325, GEOLOGY 342, and GEOLOGY 350 or permission of the instructor.

3 hrs

GEOLOGY 417  
SPECIAL TOPICS
Individual research and study of a selected topic in geology or earth science. Prerequisites: Approval of instructor and departmental sanction. On demand.

1-3 hrs

GEOLOGY 417 A  
SPECIAL TOPICS: COMMON ROCKS, MINERALS & FOSSILS OF THE K C AREA

1-3 hrs

GEOLOGY 417 C  
SPECIAL TOPICS
1-3 hrs

GEOLOGY 425  Engineering Geology

3 hrs

GEOLOGY 434  Hazardous Waste Operations Management
Overview of federal regulations dealing with hazardous waste management, toxicology, hazard communication, site management, air monitoring, operating procedures, and health and safety. The course includes hands-on training on spill control, equipment use and emergency response. Practical training involves physical stress and participants must be in good physical health. This course satisfies OSHA's 40 hour training requirement for hazardous waste personnel. Prerequisite: Permission of instructor Offered: On demand

2 hrs

GEOLOGY 435  Hazardous Waste Operations Management
Review of federal regulations governing hazardous waste management, operations procedures, and health and safety issues. Hands-on training on spill control, equipment use, and emergency response will be included. The course satisfies OSHA’s 40-hour training requirement for hazardous waste personnel. Practical training involves physical stress and participants must be in good health. Prerequisites: GEOLOGY 302, GEOLOGY / GEDG 335, GEOLOGY 412 or permission of instructor Restrictions: Must be in good health to withstand physical stress during training Offered: Winter

2 hrs

GEOLOGY 441  Environmental Geophysics
Fundamental theory and near-surface applications of the geophysical methods: (1) seismic refraction, (2) seismic reflection, (3) gravity, and (4) magnetics. Emphasis will be placed on the use of these methods in environmental and engineering investigations, addressing such issues as water resources, contaminant transport, geotechnical properties and archaeological protection. Course will include a field component illustrating application of selected techniques to local environmental problem. Prerequisites: Permission of instructor Offered: On demand

3 hrs

GEOLOGY 442R  Optical Crystallography
Theory and practical application of polarized light microscopy in the identification and characterization of crystalline and non-crystalline materials. Special emphasis is given to use of refractive index oils and thin sections. Two hours of lecture and discussion, one 2-hour lab per week. Prerequisite: GEOLOGY 312, Mineralogy or consent of instructor Offered: Winter bi-annually

3 hrs

GEOLOGY 451  Geology’s Role In Land Use Planning
Examination of principles and techniques of geology as related to land use planning. Lecture and discussion periods devoted to topics such as physical features of soils in an urban setting, geophysical surveying, photo interpretation, engineering geology, mineral and water resources, and multiple-tier planning. Lecture, discussion and laboratory. Prerequisite: GEOLOGY 220 or ENV-SCI 110R Offered: On demand.

3 hrs

GEOLOGY 460  Introduction To Geochemistry
Basic principles governing the origin, distribution and migration of the elements and the geochemical cycles operating in the earth's atmosphere, hydrosphere and lithosphere. Prerequisite: GEOLOGY 312, CHEM 212. On demand.

3 hrs

GEOLOGY 471  Tectonics
A detailed inquiry into plate tectonics and the geophysical and geological data that define the motion of lithospheric plates. Global examples of divergent, convergent, and transform plate boundaries will be studied through lectures, discussions, problem sets, and term papers. Prerequisite: GEOLOGY 325 and GEOLOGY 350. Offered: On demand.

3 hrs

GEOLOGY 472  Earthquake Geology
A detailed inquiry into the study of present and past earthquakes as they are preserved in the seismological, geophysical, and geologic record. Global examples of earthquakes will be studied through lectures, discussions, problem sets, term papers, field trips and field projects.

3 hrs

GEOLOGY 490  Geology Field Camp
Study and practical involvement in the methods of geological mapping. The six-week course is conducted during the summer, partially in a field camp away from the Kansas City area. Students pay their own travel expenses to and from the field. Participation in the course involves individual mapping in the field area and field reports. Prerequisite: Permission of instructor. Summer.

6 hrs

GEOLOGY 496  Geology Internship
Students gain directed practical experience working with non-profits, governments, or private enterprises. Duties will vary based on contractual agreement between the student, host organization, and the professor. Students should have junior standing or higher, or the instructor’s permission. Prerequisites: Permission of Instructor. Offered: Summer, Fall or Winter as available

1-6 hrs

GEOLOGY 498  Undergraduate Field Research
The student will collaborate with fellow students and instructors in collection of original field geologic data at a location remote from campus. Field research will be carried out during semester inter sessions or summer semesters. Prerequisite: Permission of instructor Semester offered: On demand

1-5 hrs

GEOLOGY 499 W I  Geology Seminar
Students participate in discussions; present formal talks; and prepare written papers on selected topics. Prerequisite: Senior standing and successful completion of the WEPT Offered: Winter
GERMAN

GERMAN 110  ELEMENTARY GERMAN I
The goals of this course are an ability to speak and to understand simple (spoken) German as well as to read and write simple prose.

5 hrs

GERMAN 111  INTRODUCTION TO BUSINESS GERMAN I
The goals of this course are the development of essential language skills in order to communicate effectively in basic situations.

5 hrs

GERMAN 120  ELEMENTARY GERMAN II
Continuation of GERMAN 110. Prerequisite(s): GERMAN 110 or equivalent.

5 hrs

GERMAN 121  INTRODUCTION TO BUSINESS GERMAN II
GERMAN 121 (5 Credits): Continuation of German III. Every Semester. Prerequisites: GERMAN 110 or GERMAN 111 or equivalent. Offered: Winter.

5 hrs

GERMAN 211  SECOND-YEAR GERMAN I
Further development of comprehension and communicative skills in the language. Readings of moderate difficulty and grammar review. Practice in writing. The goal is attainment of intermediate proficiency in the language. Prerequisite: GERMAN 120. Fall.

3 hrs

GERMAN 221  SECOND-YEAR GERMAN II
Continuation of GERMAN 211. Every winter.

3 hrs

GERMAN 250  COMMERCIAL GERMAN
Business practices and correspondence in the German language; special vocabulary of business, trade, banking and administration. Refinement of grammatical and stylistic skills. Subjects treated include price inquiries, quotations, offers, orders, complaints, administrative, banking and diplomatic correspondence. Prerequisite: GERMAN 221 or equivalent.

3 hrs

GERMAN 280  SPECIAL INTERMEDIATE GERMAN TOPICS I
Instruction of German on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed.

2-4 hrs

GERMAN 290  SPECIAL INTERMEDIATE GERMAN TOPICS II
Continuation of GERMAN 280. May not be repeated for credit. As needed.

2-4 hrs

GERMAN 301  INTRODUCTION TO LITERARY STUDIES
An introduction to the study of the different genres of German literature and techniques of criticism. Readings include representative works of major authors from various periods. Strongly recommended for all majors. To be taken before or concurrently with other literature courses. Even numbered years, fall.

3 hrs

GERMAN 305  CURRENT EVENTS IN GERMANY
This course focuses on contemporary issues in Germany such as politics, the economy, foreign affairs, culture, science, education, etc. Various television news programs, news magazines, and newspapers will be the primary sources of information in this course. Prerequisites: GERMAN 221 or equivalent.

3 hrs

GERMAN 306  ASPECTS OF CONTEMPORARY GERMAN CULTURE (CONDUCTED IN GERMAN)
The goal of the course is to familiarize the student with various aspects of contemporary culture in the German-speaking countries (Germany, Switzerland, Austria). The class will be structured around lectures, guest lectures, audiovisual presentations and discussions, emphasizing crosstrucultural comparisons.

3 hrs

GERMAN 307  FROM THE MIDDLE AGES TO THE BAROQUE
The goal of this course is to introduce students to the history of German literature from the Middle Ages to the Baroque, emphasizing the historical and social context and the development of various genres. Prerequisite: GERMAN 221 or equivalent Offered: On Demand Restrictions: Course is offered in German.

3 hrs

GERMAN 308  FROM THE ENLIGHTENMENT THROUGH THE 19Th CENTURY
The goal of this course is to introduce students to the history of German literature from the Enlightenment through the 19th century, emphasizing the historical and social context and the development of various genres. Prerequisite: GERMAN 221 or equivalent Offered: On demand Restriction: Course is offered in German.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERMAN 310</td>
<td>CLASSICAL PERIOD OF GERMAN LITERATURE</td>
<td>Readings in the late 18th and 19th centuries with emphasis on Goethe and Schiller.</td>
</tr>
<tr>
<td>GERMAN 315</td>
<td>INTERMEDIATE CONVERSATION AND COMPOSITION I</td>
<td>Practice in speaking and writing German; emphasis on idiomatic usage. Required for major. Prerequisite: GERMAN 221 or equivalent. Every fall.</td>
</tr>
<tr>
<td>GERMAN 325</td>
<td>INTERMEDIATE CONVERSATION AND COMPOSITION II</td>
<td>Continuation of GERMAN 315. Required for major. Prerequisite: GERMAN 315. Every winter.</td>
</tr>
<tr>
<td>GERMAN 340</td>
<td>SOCIETY AND LITERATURE IN 20TH-CENTURY GERMANY</td>
<td>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 authors such as Thomas Mann, Hesse, Kafka, Rilke, Brecht, Boll, Grass, Hochhuth and Weiss. Open to students of all disciplines. (Not for major credit in German).</td>
</tr>
<tr>
<td>GERMAN 341</td>
<td>SURVEY OF GERMAN FILM 1920-1980</td>
<td>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.</td>
</tr>
<tr>
<td>GERMAN 342</td>
<td>CONTEMPORARY GERMAN FILM 1980-</td>
<td>This course will introduce students to the important role film has played in the public discourse about German society immediately prior to reunification in the 1980's and during the turbulent social adjustments in unified Germany after 1990. Lectures and readings in the first week will cover important terms and concepts in film theory as well as provide background for the specific German context of film history. The class will treat film in the 1980's in terms of continuations of and liberations from the New German Cinema of the 1970's in West Germany, and in the context of state censorship and sponsorship of film in East Germany. We will approach movies from the 1990s and 2000's by accessing their depiction of historical and contemporary Germany through the lens of reunification, and we will examine issues of German identity especially as contextualized by reunification and multiculturalism. The course will be taught in English with subtitled films. Prerequisite: GERMAN 315 for German majors/minors.</td>
</tr>
<tr>
<td>GERMAN 345</td>
<td>THE ANTI FASCIST TRADITION IN GERMANY</td>
<td>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.</td>
</tr>
<tr>
<td>GERMAN 400</td>
<td>RAHNER MARIA RILKE</td>
<td>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.</td>
</tr>
<tr>
<td>GERMAN 401</td>
<td>BERTOLT BRECHT</td>
<td>Covers major works by Brecht in their social and historical context. May focus on a specific genre or survey parts or all of Brecht's career. Discussions and readings in German. Prerequisite: GERMAN 315 or instructor's permission. Offered: On Demand</td>
</tr>
<tr>
<td>GERMAN 411</td>
<td>ROMANTICISM</td>
<td>Main currents and authors from the Romantic school, 1780-1820.</td>
</tr>
<tr>
<td>GERMAN 412</td>
<td>THE GERMAN NOVELLE</td>
<td>An examination of representative novellen of the 19th and 20th centuries. Special emphasis on the study of form.</td>
</tr>
<tr>
<td>GERMAN 414</td>
<td>GERMAN LYRIC POETRY</td>
<td>Lyric poetry from its beginnings to the present. Emphasis on 19th and 20th centuries.</td>
</tr>
<tr>
<td>GERMAN 415</td>
<td>ADVANCED CONVERSATION AND COMPOSITION I</td>
<td>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.</td>
</tr>
<tr>
<td>GERMAN 421</td>
<td>19TH-CENTURY DRAMA</td>
<td>Kleist through Hauptmann.</td>
</tr>
</tbody>
</table>
**GERMAN 422  CONTEMPORARY DRAMA**  
This course will provide students with a survey of the most important dramatic movements of the 20th century. It will proceed chronologically through Expressionism, the Brechtian theatre of alienation, documentary theater and post-modernist theater. Prerequisite: GERMAN 221  
3 hrs

**GERMAN 425  ADVANCED CONVERSATION AND COMPOSITION II**  
Continuation of GERMAN 415. See GERMAN 415. Required for teacher certification in German. Prerequisite: GERMAN 415.  
3 hrs

**GERMAN 426  20Th-Century GERMAN LITERATURE**  
Selected readings from Neo-Romanticism to the present. On demand.  
3 hrs

**GERMAN 453  WOMEN’S VOICES IN GERMANY AND AUSTRIA**  
The course focuses on the role of women in German and Austrian society from the Roman era to the present, primarily through the examination of literary texts by women. Prerequisite: GERMAN 221  
3 hrs

**GERMAN 480  SPECIAL TOPICS**  
Each time this course is offered a particular author, genre or area of literature will be treated. Topics will be announced in advance. May be repeated for credit when the topic changes. Permission of the department chairman is required. On demand.  
1-3 hrs

**GERMAN 490  SPECIAL READINGS**  
Intensive readings in a field or literary figure to be selected by the student in consultation with the instructor. Available by permission only to advanced students of German; available only when student cannot take regularly scheduled courses. Prerequisite: 3.0 GPA. On demand.  
1-3 hrs

**GERMAN 499  SENIOR SEMINAR (CAPSTONE)**  
Required for major. Covers seminal works of German literature in their historical and cultural context. Course content varies, but will include such elements as geography, politics, folklore, history of the language, architecture, art and music. To be taken during final Winter Semester of residence. Prerequisite: 21 hours beyond first year. Offered: Winter Semester.  
3 hrs

**GREEK**

**GREEK 110  ELEMENTARY GREEK I**  
The goal of this course is an ability to read classical Greek. The student will be introduced to the fundamentals of grammar and the basic vocabulary of the language and will do exercises in the reading and writing of sentences. Continuous passages of Greek will be presented by the end of the semester. Every other fall semester. Sophomore Status or Consent of Instructor Offered: Every Other Fall Semester  
5 hrs

**GREEK 120  ELEMENTARY GREEK II**  
A continuation of the study of the grammar and vocabulary of classical Greek, with an increasing emphasis on developing skills in translation. By the middle of the semester students will be introduced to selections from Plato, Herodotus or Homer. Prerequisite(s) Greek or equivalent. Semester Offered: Every other winter semester.  
5 hrs

**GREEK 280  SPECIAL INTERMEDIATE GREEK TOPICS I**  
Instruction of Greek on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed.  
2-4 hrs

**GREEK 290  SPECIAL INTERMEDIATE GREEK TOPICS II**  
Continuation of GREEK 280. May not be repeated for credit. As needed.  
2-4 hrs

**GREEK 490  SPECIAL READINGS IN GREEK**  
Intensive readings in period or genre or literary figure to be selected by the student in consultation with the instructor. Available only to advanced Greek students. On demand.  
1-3 hrs

**HEBREW**

**HEBREW 110  ELEMENTARY HEBREW I**  
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.  
5 hrs

**HEBREW 120  ELEMENTARY HEBREW II**  
Continuation of HEBREW 110. Every winter. Prerequisite(s): HEBREW 110 or equivalent.  
5 hrs
HEBREW 211  SECOND-YEAR HEBREW I
Further development of comprehension and communicative skills in the language. Readings of moderate difficulty and grammar review. Practice in writing. The goal is attainment of intermediate proficiency in the language. Prerequisite: HEBREW 120 Offered: Fall
3 hrs

HEBREW 221  SECOND-YEAR HEBREW II
Continuation of HEBREW 211. Prerequisite: HEBREW 211. Every winter.
3 hrs

HEBREW 290  SPECIAL INTERMEDIATE HEBREW TOPICS II
Continuation of HEBREW 280. May not be repeated for credit. As needed.
2-4 hrs

HEBREW 380  SPECIAL TOPICS
Treatment of a particular genre or area of literature in Hebrew normally not offered through regular courses. May be repeated for credit when the topic changes. Prerequisite: Permission of the instructor. On demand.
1-3 hrs

HEBREW 490  SPECIAL READINGS
Intensive study of a subject selected by the student in consultation with the instructor. Available by permission only. On demand.
1-3 hrs

HISTORY
HISTORY 101  AMERICAN HISTORY TO 1877
This course covers the evolution of American civilization from its colonial beginnings to Reconstruction. It is not a prerequisite for 102. Fall, winter, summer.
3 hrs

HISTORY 102  AMERICAN HISTORY SINCE 1877
This covers American history from the end of Reconstruction to the present. HISTORY 101 is not a prerequisite for this course. Fall, winter, summer.
3 hrs

HISTORY 102 P  AMERICAN HISTORY SINCE 1877
This covers American history from the end of Reconstruction to the present. HISTORY 101 is not a prerequisite for this course. Offered: Fall, winter, summer.
3 hrs

HISTORY 201  WESTERN CIVILIZATION TO 1600
This course surveys the political, social and cultural history of Europe from ancient times to 1600. Beginning with a brief description of the riverine civilizations of the ancient Near East, the course then examines the political and cultural evolution of classical Greco-Roman civilization, the medieval world, the rise of the national state, and the essential characteristics of the eras of the Renaissance and Reformation. Fall, Summer, Winter.
3 hrs

HISTORY 202  WESTERN CIVILIZATION SINCE 1600
This course surveys the political, economic, social, intellectual, and cultural history of Europe from about 1600 to the present, through these major developments in those centuries: the origins of the modern sovereign state (absolutist and constitutional), the English revolutions; the European Enlightenment, the French Revolution, and Napoleonic Europe; Romanticism and Scientism in culture and thought, the Industrial Revolution and urban society, and nationalism and imperialism; the two world wars, the Russian Revolution, dictators and totalitarian states, and the current postwar world and culture. Fall, Summer, Winter.
3 hrs

HISTORY 206  WORLD HISTORY TO 1600
This course is a comparative history of the civilizations of the world from prehistory to the seventeenth century. From a global perspective, this course explores themes relevant to social, political, and cultural history, such as science and technology, women and social classes, religion, politics, and education. Images of art and examples of primary sources enrich the lectures and readings.
3 hrs

HISTORY 208  WORLD CIVILIZATION SINCE 1600
This course surveys the social, economic, political and institutional history of the world from the 17th century to the present. It is designed to foster deeper understanding of the continuity between past and present and of the interdependence among nations in contemporary times.
3 hrs

HISTORY 250  INTRODUCTION TO AMERICAN STUDIES
An introduction to the American Experience through the study of selected themes and issues that stress both continuity and change in America. Topics include community, family, ethnic groups, racial conflict, science and religion, the arts, sports, mass media, technological innovation and immigration and migration. The interdisciplinary nature of American Culture will be stressed. Prerequisite: None. Offered: Alternate Years.
3 hrs

HISTORY 300 B  SPECIAL STUDIES IN HISTORY
1-3 hrs
**HISTORY 300 C**  
Special Studies  
1-3 hrs  

**HISTORY 300 CM**  
Cluster Course: Mexico, Central America and the Human Condition  
Faculty from at least two different departments may determine the topic and syllabus, subject to approval of the Director of Integrated Studies and the program's advisory committee in addition to approval of the departments involved. This special topics course will satisfy the interdisciplinary course requirement for the B.A.  
3 hrs  

**HISTORY 300 D**  
Special Studies  
1-3 hrs  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 300</td>
<td>Special Studies History K</td>
</tr>
<tr>
<td>HISTORY 300</td>
<td>Special Studies History P</td>
</tr>
<tr>
<td>HISTORY 300</td>
<td>Special Studies History R</td>
</tr>
<tr>
<td>HISTORY 300</td>
<td>Special Studies History WY</td>
</tr>
<tr>
<td>HISTORY 300</td>
<td>Special Studies History RA</td>
</tr>
<tr>
<td>HISTORY 300</td>
<td>Special Studies History RB</td>
</tr>
<tr>
<td>HISTORY 300</td>
<td>Special Studies History RH</td>
</tr>
</tbody>
</table>

**HISTORY 300 WY**  
Decade of Descent: The 1960s  
The social movements and conflicts that developed during the 1960s continue to define American culture. Questions of racial and gender equity, a greater willingness to challenge authority, concerns about the environment, and a new openness about issues of sexuality all developed during the sixties and remain as arenas of debate today. This course will examine the origins, contexts, and major themes of these social and cultural movements.  
3 hrs  

**HISTORY 301 WI**  
Historiography and Method  
This basic course is required of all history majors at the beginning of the junior year. Content includes: 1) what history is; 2) its value and usefulness; 3) the diversity of our fields, approaches, and methods; and 4) the techniques of preparing and writing history papers. Texts and reading are approved by the Department. (i.e.: Turabian for style). Although the emphasis is general instead of particular, the instructor will be assisted by other historians representing their main special interest areas. Prerequisite: Successful completion of the WEPT (effective FS93). Offered: Fall and winter.  
3 hrs  

**HISTORY 302**  
America, 1000-1763: The Formative Era  
Early American history encompasses the formative era of many institutions and attitudes which still persist in technocratic, post-modern America. A study of how these patterns and policies emerged will enlighten us as to our current ways society seeks to adapt to change. Semester offered: On demand  
3 hrs  

**HISTORY 303**  
America, 1763-1783: The Revolutionary Heritage  
The American Revolution created American history by creating a new nation. What the American Revolution was depends to a large extent upon what Americans think they are or ought to be. The goals of this course, therefore, are twofold: (1) to probe the nature, causes and consequences of the American Revolution; (2) to assess the intentions and behavior of both the Framers in 1763-1783 and of the inheritors of modern America. Also offered as HISTORY 503. Semester offered: On demand  
3 hrs  

**HISTORY 304**  
America, 1783-1828: The National Experience  
The two major threads of this course are the formation and implementation of the Constitution and the cultural adolescence of the new nation. Topics considered include the political bequest of the framers' generation, the growing pains of territorial expansion and industrialism, the paradoxical development of regionalism and nationalism. Also offered as HISTORY 504.  
3 hrs  

**HISTORY 305**  
America, 1828-1852: The Jacksonian Period  
An analysis of the political, social, economic, and intellectual factors in American society, 1828-1852. The period featured the presidency of Andrew Jackson, the shaping of a new democratic ideology, the culmination of manifest destiny, the quickening of the antislavery impulse, the Mexican War, the growing sectional split, and the Compromise of 1850. Also offered as HISTORY 505.  
3 hrs
HISTORY 306  AMERICA, 1850-1877: CIVIL WAR AND RECONSTRUCTION
A survey of the political, social and economic factors leading to the dissolution of the federal union is followed by a consideration of the major features and developments of the war period. This, in turn, leads to an analysis of the major factors and relationships involved in the "reconstruction" of the federal union. The course covers the years 1850 to 1877. Also offered as HISTORY 506.
3 hrs

HISTORY 307  AMERICA 1877-1917: DEVELOPMENT OF INDUSTRIAL AMERICA
This course deals with the reactions of different groups of Americans to the industrialization and urbanization of the United States from 1877 to 1917, using concepts associated with modernization upon the behavior of the business community, farmers, laborers, immigrants, professionals and major ethno-cultural groupings. Other contemporary proposals for the adjustment to industrialism are explained as well as the programs which each group eventually used to adjust to modern society. Also offered as HISTORY 507.
3 hrs

This course examines United States social, intellectual, economic, political and diplomatic history from the beginning of World War I to the end of World War II. Special emphasis is placed on the coexistence of realism and idealism in American foreign policy, the evolution of power shifts within the American federal system, and the causes and consequences of rapid urban growth and increased industrial sophistication. Students examine the material and social texture of life during the two world wars, the so-called "roaring 20s", and the Great Depression through contemporary art forms (especially novels) and historical monographs.
3 hrs

HISTORY 308 B  AMERICA: 1945-PRESENT: OUR TIMES
This course examines United States social, intellectual, economic, political, and diplomatic history from the end of World War II to the present. Given our focus on the recent past, special emphasis is placed upon the importance of the historical perspective to an understanding of contemporary affairs. Major themes include: America's rise to the world power, the development of the Keynesian welfare state, the concentration of corporate wealth and power, the persistence of poverty amidst plenty, and the changing status of American minority groups.
3 hrs

HISTORY 310 WI  HISTORY OF MODERN COMPUTING
This is a writing-intensive introduction to the history of modern computing. After an introduction to historical writing, the course surveys the history of electronic computing, covering both technological changes and their social and economic context. Student efforts then will be focused on individual research leading to the writing of a paper on a topic in this field selected with the approval of the instructor. Students will carry out a series of written assignments in order to learn how to do historical research and to improve one's reading, writing, and analytical skills. Prerequisite: WEPT Restrictions: Must have passed the WEPT Offered: WS2004
3 hrs

HISTORY 353  IMMIGRANTS AND IMMIGRATION IN AMERICAN HISTORY
This course surveys the effects of immigration on the social, intellectual and economic development of the United States. As well, it treats the fate of immigrant groups. Attention is given to the forces affecting assimilation, ethnic identity, mobility and discrimination. In some semesters particular emphasis is placed on one immigrant group, one time period, or the immigrant groups of Kansas City. Also offered as HISTORY 553.
3 hrs

HISTORY 354 R  WOMEN IN MODERN AMERICA
This course traces the part women have played in the processes of industrialization and urbanization. It looks at the general demographic, economic and social changes affecting women of all classes, as well as the role of middle-class women in the progressive, prohibition and suffrage movements. The course will also study the impact of the two world wars and the Depression upon the roles of women. Also offered as HISTORY 554.
3 hrs

HISTORY 355 A  INDIANS OF SOUTH AMERICA AND THE EUROPEAN INVASION
Origins and Latin America. Consideration of the origins of Indian culture throughout the entire Western hemisphere is followed by an analysis of the great Native American civilizations of Mexico, Central America and the Andes; Indian reactions to the Spanish and Portuguese invaders; and the present situation of Latin American Indians. Also offered as HISTORY 555A.
3 hrs

HISTORY 355 BA  INDIANS OF NORTH AMERICA TO 1789
The history of the native peoples of North America from their origins to the era of the American Revolution. Prerequisite: None. Offered: Fall.
3 hrs

HISTORY 355 BB  INDIANS OF NORTH AMERICA SINCE 1789
The history of the native people of North America (Indians and Inuit) and their interaction with the European invaders since 1789. This course is the sequel to HISTORY 355BA, Indians of North America to 1789. Prerequisite: None. Offered: Winter.
3 hrs

HISTORY 356  RISE OF THE CITY IN THE U.S.
This course treats the background and major developments of the urbanization of the United States. Includes the American urban tradition, the scope of urbanization, colonial beginnings, urban rivalries, promotion, case studies of cities, the growth of urban services, the slum, problems of government, population trends, urban planning, and suburban growth. Consideration is also given to the methods and techniques of urban research and history of the development of this field. Also offered as HISTORY 556.
3 hrs

HISTORY 356 R  KANSAS CITY: HISTORY OF A REGIONAL METROPOLIS
This course uses Kansas City as an urban laboratory to help students better understand the dynamics of the urbanization process in America. It features lectures and discussions on such subjects as early settlement patterns, the battle for the first bridge over the Missouri River, the development of an economy based on agricultural pursuits, the City Beautiful Movement, the social fabric, the Pendergast Machine, and the impact of World War II and after. The course fits Kansas City into the larger framework of the American urban mosaic. Also offered as HISTORY 556R.
3 hrs

HISTORY 357  THE AMERICAN WEST
This course deals with the relationship of the American West to the social and economic development of the United States. Major emphasis is placed on the role of the trans-Mississippi West in the economic growth of the national economy. Related cultural and political events are evaluated in the terms of the many Western frontiers. Emphasis will be placed on the Turner thesis, the Indian heritage, frontier violence, and the cow town experience. Also offered as HISTORY 557.
This course is designed to acquaint students with specific careers in museums and historical agencies; to introduce students to the wide range of operating issues facing those working in the museum profession on a day-to-day basis; and to familiarize students with the organizations, reference works and resources available to develop the skills and training required for those who choose to make this their profession. Also offered as HISTORY 593. Offered: On demand.

3 hrs

HISTORY 361 AMERICAN FOREIGN RELATIONS
Following a rapid survey of major principles and actions in American diplomatic affairs before 1900, this course analyzes developing principles, problems, methods and factors in American foreign relations since that date. Attention is given to the interrelationships of domestic factors and foreign relations with an attempt to discover principal influences that have shaped this area of American development. Also offered as HISTORY 561R.

3 hrs

HISTORY 364 R NATURE, CULTURE AND THE HUMAN EXPERIENCE
This course is an introduction to various interpretations of nature with a focus on American culture and society. We will consider ideas about nature from diverse perspectives including history, literature, philosophy and religion in order to understand how human perceptions and uses shape relations with the natural world. Specific themes include such diverse topics as the aesthetic tradition, environmental thought, and environmental justice.

3 hrs

HISTORY 365 A AMERICAN ENVIRONMENTAL HISTORY
This course examines the changing relationships between human beings and the natural world through time. The main argument of this course will be that American History looks very different through an environmental lens. Nature is an important category of historical analysis as well as a topic worthy of historical study itself and this course will examine themes as diverse as Native American ecology to the modern environment crusade.

3 hrs

HISTORY 366 RR AMERICAN LABOR HISTORY
This course examines the history of work and the working class in the U.S. from 1750 to the present. We will focus on the transformation of the workplace, the rise of the union movement, the nature of cultural and political organizations, workers' relationships with other social groups, and the role played by gender, race, and ethnicity in unifying or dividing the working class. Also offered as HISTORY 566RR.

3 hrs

HISTORY 368 GIRLHOOD AND BOYHOOD IN AMERICA
This course, which brings a gendered perspective to the history of childhood and the study of youth, focuses on the changing construction of girlhood and boyhood from precontact to the present. We will examine the variety of forces that have scripted the lives of children and adolescents and explore the active role they have played in shaping their lives and American culture. We will make 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

3 hrs

HISTORY 369 WOMEN AND WORK IN EARLY AMERICA
This course offers an in-depth study of women and gender at the center of investigation and interpretation, this course focuses on the ways in which gender, race, region and class have shaped the historical experiences of women in North America. We will trace the lives of American women from precontact to 1865 through an examination of a wide variety of social, cultural, economic, and political forces and factors including work and leisure, family life, political activities and organizations, and education. Semester offered: On demand

3 hrs

HISTORY 370 INTRODUCTION TO MATERIAL CULTURE
This course will consider the ways in which material culture contributes to our understanding of history. Scholars have increasingly recognized the significance of "the things they left behind," particularly as they provide insights to the lives of those who did not leave extensive written records. Students will consider all aspects of material culture, drawing largely on examples from American history: architecture, domestic utensils and furnishings, clothing, tools, and good agricultural practices. The courses will emphasize the process of handcraft technology as well as the product, and will consider the impact of modernization upon both process and product. Also offered as HISTORY 570.

3 hrs

HISTORY 391 ARCHIVAL METHODS
This combined discussion and research course will examine the research potential of primary-source materials in the custody of archival depositories and the methodology employed to utilize effectively these resources. An analysis of archival method, specifically in the areas of arrangement, description and preservation, will be emphasized during the discussion portion of the course. Most of the course will be devoted to independent research in various collections of the Regional Archives of the Kansas City Federal Records Center. The course will meet at such places as the Federal Records Center, 2306 Banner Road, or the Truman Library for both the discussion and research segments. Also offered as HISTORY 591. Summer.

3 hrs

HISTORY 392 A ARCHIVAL INTERNSHIP
Students work directly with professional archivists and other personnel at the Kansas City Federal Records Center, the Truman Library, Jackson County Historical Society, and similar facilities in the area. Emphasis will be given to areas of arrangement, description and preservation of archival materials. Each student must make individual arrangements through the department. Also offered as HISTORY 592. Prerequisites: None Offered: Fall, Winter, Summer Restriction: Approval of Department Chair

1-3 hrs

HISTORY 392 B PUBLIC HISTORY INTERNSHIP
Students work directly with public history and editorial personnel at the Kansas City Museum, the Kansas City Pitch Weekly, the Truman Library, and similar facilities in the area. Depending on the institutional affiliation, emphasis will be given to museum operations and displays, editing, fund-raising, historical research and writing. Each student must make individual arrangements through the department. Also offered as HISTORY 592B. Prerequisites: approval of the department chair.

1-3 hrs

HISTORY 393 MUSEUM SCIENCE
This course is designed to acquaint students with specific careers in museums and historical agencies; to introduce students to the wide range of operating issues facing those working in the museum profession on a day-to-day basis; and to familiarize students with the organizations, reference works and resources available to develop the skills and training required for those who choose to make this their profession. Also offered as HISTORY 593. Offered: On demand.
HISTORY 394  AFRICAN AMERICAN HISTORY BEFORE 1877
This course is a survey of the African American experience from Pre-Columbian exploration through reconstruction. The course focuses on the trans-Atlantic slave trade, slavery in the colonies as well as resistance and abolition movements. Prerequisite: None.

3 hrs

HISTORY 395  AFRICAN AMERICAN HISTORY SINCE 1877
This course is a survey of African Americans in the United States from 1877 to the present. The course explores the post-reconstruction era, civil rights and black nationalistic movements; the concepts of racism, desegregation/integration and separation. Contemporary issues facing a multiracial and pluralistic society are also addressed. Prerequisite: None.

3 hrs

HISTORY 400  SPECIAL STUDIES
Courses on subjects which are not a part of the regular department offering. The courses result from one or more of the following: (1) The expressed desire of students; (2) the broadened or refocused scholarship of a member of the history faculty; (3) the temporary presence of a scholar whose specialization is not reflected in the department’s regular offerings; (4) the conclusion by the department that the course meets a community need; (5) the effort of the history faculty to provide an interdisciplinary approach to an era or topic. The course is experimental in the sense that it is a one-time offering with the potential of repetition or modification—depending upon student, faculty and community response. Also offered as HISTORY 500R.

1-3 hrs

HISTORY 400 B  SPECIAL STUDIES

1-3 hrs

HISTORY 400 C  SPECIAL STUDIES

1-3 hrs

HISTORY 400 CC  SPECIAL STUDIES

3 hrs

HISTORY 400 CF  CLUSTER COURSE: COURTS AND CULTURE IN THE HIGH MIDDLE AGES
This course offers an interdisciplinary approach to the study of the High Middle Ages. In addition to the regularly scheduled meetings of this self-contained history class, there will be common sessions with students and faculty of ENGLISH 400CF to look in 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

3 hrs

HISTORY 400 CI  CC:CULTURE,KULTUR,CIVILISATION:IDENTITY FORMATION IN MIDDLE CLASS
This cluster course will explore the dynamics of bourgeois class formation in Western Europe in the "long" 19th century (1750-1920) from historical, thematic, and theoretical perspectives. It will focus on how this class-based identity developed and functioned in the context of historical and cultural changes and how the bourgeoisie defined themselves vis a vis nobles, peasants, workers, "primitives" and criminals. Class assignments will include historical, literary, theatrical, anthropological, and cinema-graphic sources. Offered: WS 2001

3 hrs

HISTORY 400 CJ  SPECIAL STUDIES

3 hrs

HISTORY 400  SPECIAL STUDIES

CL

1-3 hrs

HISTORY 400 CP  AMERICAN SOCIAL FILM: SILVER SCREEN AND THE AMERICAN DREAM
This course will combine American social history and American film history. Using Hollywood entertainment films, the course will look at Hollywood as an indicator of social, political, and economic conditions in the U.S. from the early 1900s to the late 1950s. The main topics are war and the threat of war, poverty and affluence, racial tensions, censorship, and political zealotry. A paper is required, and a social history textbook, a film history textbook, a play by Arthur Miller and a collection of articles constitute core readings. This course is offered as a cluster with AMER-ST 300CD, COMM-ST 402CD and ENGLISH 300CD.

3 hrs

HISTORY 400 CS  CLUSTER COURSE:Clio&The Other Muses:HIST&CULTURE 5TH CENT ATHENS

3 hrs

HISTORY 400 CY  CLUSTER COURSE: THE ANCIENT WORLD AND THE CINEMA
This course will explore the tradition of depicting the ancient Mediterranean world in film from the early silent era to the present. Topics to be covered include the ways that filmmakers respond to literacy and historical sources from the ancient world, interact with the artistic tradition of films about the ancient world, the relation of these films to other works by the same creative personnel (directors, actors, writers, producers, etc.), and the political and cultural contexts in which the films were released.

3 hrs

HISTORY 400 F  SPECIAL STUDIES

1-3 hrs
HISTORY 400 G  Special Studies
1-3 hrs

HISTORY 400 J  Special Studies
1-3 hrs

HISTORY 400 K  Special Studies
1-3 hrs

HISTORY 400 M  Special Studies
1-3 hrs

HISTORY 400 S  Special Studies
1-3 hrs

HISTORY 400 T  Special Studies
1-3 hrs

HISTORY 400 WI  Special Studies
1-3 hrs

HISTORY 401 A  RELIGION IN AMERICA
An in-depth examination of selected aspects of the history of religions in America from the colonial period to the present. Special emphasis will be given to methodological issues in the study of American religious history. Offered: On demand
3 hrs

HISTORY 411 A  MEDIEVAL CIVILIZATION I
This course covers the period between the decline of the Roman Empire in the West and the Investiture Controversy. Topics include the rise of Christianity and early church-state relationships; the barbarian invasions and the various Germanic kingdoms; the age of Charlemagne; monasticism and feudalism. There will also be special sessions on the civilizations of Islam and Byzantium. Also offered as HISTORY 511.
3 hrs

HISTORY 411 B  MEDIEVAL CIVILIZATION II
See HISTORY 400CF / HISTORY 500CF for course description. Also offered as HISTORY 512.
3 hrs

HISTORY 412 A  GENDER AND FAMILY IN MEDIEVAL AND EARLY MODERN EUROPE
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
3 hrs

HISTORY 412 B  THE BLACK DEATH AND LATE MEDIEVAL SOCIETY
This course examines all aspects of late medieval and early Renaissance society in Western Europe. The Black Death of 1348/1349 serves as the entry point into the historical study of the economy, demography, and culture during this transitional period. Offered: On demand
3 hrs

HISTORY 413  RENAISSANCE
Beginning with a definition and exploration of the Renaissance as a period of gradual transition between the Middle Ages and the beginning of modern culture, this course concerns itself primarily with the rise and spread of Humanism; the revival of interest in antiquity; the growth of individualism; and the rise of secularism, as well as with the artistic achievements of the period. Also offered as HISTORY 513.
3 hrs

HISTORY 414  REFORMATION
Beginning with a description and analysis of the social, intellectual and political aspects of the later Middle Ages, the course continues with an examination of those profound religious, social and political changes which mark the 16th century as the end of the Middle Ages and the beginning of the modern secular era. Also offered as HISTORY 514.
3 hrs
HISTORY 415 B  17TH AND 18TH CENTURY EUROPEAN HISTORY
this course is designed to present the upper-division undergraduate with a firm grasp of the major intellectual, cultural, political and economic developments of 17th and 18th century Europe. It considers the bitter Thirty Years War in Central Europe, the rise of the Netherlands, the fall of Italy and Spain, the rise of constitutional and absolutist styles of government, the scientific revolution, the colonization by European of the Pacific and Indian Ocean Basins, Enlightenment political philosophy, the Agricultural Revolution, and the French Revolution. Also offered for graduate students as HISTORY 515.

3 hrs

HISTORY 416 R  THE FRENCH REVOLUTION AND NAPOLEON
Narrative history concentrating on the explosive and colorful events and personalities in France, but also showing the European and Western context and impact of the revolution and Napoleon. Illustrated accounts cover such "great days" as the storming of the Bastille, the fall of Robespierre, and Napoleon's Coup of 18 Brumaire, and great battles. Main periods are: the origins of the revolution (economic, social, political, intellectual); revolution and reconstruction (1789-92); through terror to Thermidor (Jacobsen and sans-culottes); Napoleon's wars and reconstruction (France and Europe). Cinema, slides and martial music periodically. Discussion of major authors and interpretations. Also offered as HISTORY 516.

3 hrs

HISTORY 417 R  NATIONS & EMPIRES: 19TH CENTURY EUROPE
This upper-division course will survey significant trends in warfare, politics, economics, social relations and culture in 19th century Europe, paying particular attention to the rise of modern ideologies and identities, world hegemony, and the social technologies of dehumanization that foreshadowed the unprecedented inhumanities of the 20th century. Also offered for graduate students as HISTORY 517.

3 hrs

HISTORY 418 R  THE AGE OF EXTREMES 20TH CENTURY HISTORY
This upper-division course traces the history of Europe in the 20th century. It will survey significant trends in warfare, politics, economics, social relations and culture, paying particular attention to the issues of modernity and post modernity, imperialism and decolonization, dehumanization and genocide as well as the role of ordinary people in these systems of mass destruction. Also offered for graduate students as HISTORY 518.

3 hrs

HISTORY 419 R  CONTEMPORARY EUROPE: 1930-2000
This upper-division course traces the history of Europe in the period of living memory. It will survey significant trends in warfare, politics, economics, social relations and culture, paying particular attention to the rise of globalization and the condition of postmodernity, decolonization and neocolonization, European unification and everyday life. Also offered for graduate students as HISTORY 519.

3 hrs

HISTORY 424 A  COLONIAL AND POST COLONIAL SOUTH ASIA
South Asian historians have very effectively applied many new approaches to the studies of the past to modern Indian and Sri Lankan history. This course examines topics and debates in this literature as they bear on the methods and practices of the historian. The topics to be investigated include the nature of colonial rule, the nation-state, and ethnicity. Students will be introduced to issues of methodology, periodization and explanation posed by the relationship between colonial and post-colonial South Asia. The case studies will be drawn from twentieth century India and Sri Lanka, but the topics are of relevance to students of other regions and disciplines. Prerequisites: None. Offered. Fall.

3 hrs

HISTORY 424 R  20TH CENTURY ASIA
A survey of the major states of Asia from the beginning of the century to the present, focusing on resistance to Western imperialism, national independence and problems of economic and social change. Also offered as HISTORY 524.

3 hrs

HISTORY 425 R  EUROPEAN CRIMINAL JUSTICE HISTORY, 500-1900
This course will survey European crime, criminal procedure, policing and punishment between 500 and 1900. Particular attention will be given to changing methods of proof (oaths, ordeal, juries); changing type of criminal activity (banditry, vagrancy, witchcraft, professional theft) and changing penal strategies (the stocks, breaking on the wheel, the workhouse, the prison, the penitentiary). English experiences are emphasized. Also offered as HISTORY 525R.

3 hrs

HISTORY 426 R  THE SCIENTIFIC REVOLUTION, 1500-1700
An analysis of the intellectual and social currents which culminated in the Scientific Revolution. After presenting the Renaissance world view, the course will examine the influence of humanism, art, religion, and the voyages of discovery on science, as a prelude to understanding the achievements of Galileo, Harvey, Newton, and the scientific societies of the 17th century. Also offered as HISTORY 526R.

3 hrs

HISTORY 427 R  THE DARWINIAN REVOLUTION, 1650-1900
An inquiry into the intellectual background of Darwin's "Origin of Species." The course will examine 18th- and 19th-century attitudes toward time, species, change, race, the age of the earth, the nature of fossils, creation, and evolution, as background to understanding the achievement of Darwin and the reception of his work. Also offered as HISTORY 5327.

3 hrs

HISTORY 428 A  HISTORY OF THE BODY
This advanced course will explore the new field of the history of the body, with particular attention to sexuality and gender. Topics will include the history of sexualities, the body and society, body disciplines, medical practices and representations of illness, beauty and fashion, and the relationship between sexualities and nationalisms. Semester offered: On demand

3 hrs

HISTORY 428 B  GENDER & MEDICINE: PATIENTS & PRACTITIONERS FROM ANTIQUITY TO PRESENT
This course explores, in a selective fashion, the role of women in Western medicine both as health care providers and patients. The subject of the history of medicine is too broad to be covered comprehensively in a semester, and so we will focusing on diseases or physical conditions which were believed to be limited to women--childbirth, certain mental health conditions, reproductive health, breast cancer-- as well as the increasing marginalization of women within the profession of health care providers to those branches concerned primarily with "women's problems." Offered: On demand

3 hrs
HISTORY 430 R  THE ORDEAL OF TOTAL WAR, EUROPE, 1900-1950
This upper-division course traces the history of Europe-on its own and in its relations to the rest of the world from its use of genocide "beyond" its shores to its systematic application in Europe. It will survey significant trends in warfare, politics, economics, social relations and culture, paying particular attention to the causes for war and the expansion of violence, modernization and modernity, democracy and totalitarianism, colonization and resistance, mass destruction and everyday life. Also offered for graduate students as HISTORY 530.
3 hrs

HISTORY 431 R  MEDIEVAL ENGLAND, 1066 TO 1485
Beginning with the Norman conquest of England in 1066, this course traces the history of Medieval England through the establishment of the Tudor dynasty. Covered will be such items as the rise of the Angevin Empire, the conflict between monarch & nobility, the evolution of Parliament, as well as the Anglo-French rivalry which culminated in the Hundred Years' War.
3 hrs

HISTORY 432 R  TUDOR ENGLAND, 1485-1603
This course covers England from the accession of Henry VII, the first Tudor, to the death of Elizabeth I in 1603 Topics to be covered are: transformation of England into a modern state, the Reformation, the role of Parliament, conflicts with European powers, especially Spain, etc. Also offered as HISTORY 5332.
3 hrs

HISTORY 433  JACKSONIAN PERIOD
3 hrs

HISTORY 433 R  HISTORY OF BRITAIN 1603-1832
This course analyzes the rise and fall of the Stuart dynasty and the effects of civil war, rebellion, and religious turmoil on the peoples of Britain. The domination of politics and culture by the aristocracy in the eighteenth century is examined. The rise of the Navy due to constant warfare and the exploration of the Pacific are discussed. The monarchy of George III, the loss of the American colonies, and the wars with Napoleon are examined. Finally, the Agricultural and early Industrial Revolutions are considered through an analysis of the social changes they brought in Britain and the Empire
3 hrs

HISTORY 434  AMERICAN CIVIL WAR AND RECONSTRUCTION
3 hrs

HISTORY 434 R  HISTORY OF BRITAIN 1832-PRESENT
This course surveys the history of the British Isles from the industrial revolution to the present day. Topics include Victorian society, the rise of the class system, imperialism, the domestic impact of the two world wars, the reaction to the loss of the Empire, pop culture, and contemporary issues.
3 hrs

HISTORY 436 R  MODERN GERMAN HISTORY
This course traces the history of Central Europe from the fall of Bismark to the reunification of Germany one century later. It will ask students to think critically about the relationship between state and society, elites and 'ordinary' Germans, in the various German-speaking regimes that existed over the course of this era: two empires, two interwar republics, two fascist dictatorships, and three post-fascist republics. All assigned readings will be in English; a background knowledge of European history is recommended. This course follows from HISTORY 435 / HISTORY 535: the contents and assignments will be coordinated, but the former course is not a prerequisite for the latter.
3 hrs

HISTORY 437 AWI  IMPERIAL GERMANIES, 1848-1918
This course traces the history of German-speaking Central Europe from the Revolutions of 1848 to the collapse of the Hohenzollern and Habsburg empires at the end of World War One. It will ask students to think critically about the relationship between state and society and the role played by 'elite' and 'ordinary' people in shaping German history. This reading and writing intensive course will be run as a seminar. Final grades will be based on a portfolio of assignments of which students will select what they consider to be the best examples of their work. Prerequisites: HISTORY 202, HISTORY 208 or equivalent
3 hrs

HISTORY 437 BWI  FIRST GERMAN REPUBLICS, 1917-1935
This course traces the history of the two German Republics during the inter-war years-the First Austrian Republic and the so-called Weimar Republic-from the peace movements of the First World War to the solidification of fascist dictatorships. It will ask students to think critically about the relationship between state and society and the role played by 'elite' and 'ordinary' people in shaping German history. This reading-and writing-intensive course will be run as a seminar. Final grades will be based on a portfolio of assignment of which students will select what they consider to be the best portfolio of assignments of which students will select what they consider to be the best examples of their work. Prerequisites: HISTORY 202, HISTORY 208 or equivalent
3 hrs

HISTORY 437 CWI  THE THIRD REICH, 1930-1950
This course traces the history of the Third Reich--its origins, nature, and crimes against humanity--from its first electoral successes in the Great Depression to the trials of its leaders after various war crimes. At its center stand the challenging questions of the ethical and historical responsibility for the Holocaust. It will ask students to think critically about relationship between state and society and the role played by 'elite' and 'ordinary' people in shaping this tragic era of German and European history. This reading-and writing-intensive course will be run as a seminar. Final grades will be based on a portfolio of assignments of which students will select what they consider to be the best examples of their work. Prerequisites: HISTORY 202, HISTORY 208 or equivalent
3 hrs

HISTORY 437 DWI  COLD WAR GERMANIES, 1941-1991
This course traces the history of the three postwar German Republics--the Second Austrian Republic, the German Democratic Republic, and the Federal Republic of Germany--from the initial plans of the Allies for postwar reconstruction to the Reunification of Germany in 1991. It will ask students to think critically about relationship between state and society and the role played by 'elite' and 'ordinary' people in shaping, and in the remembering, of German history. This reading-and writing-intensive course will be run as a seminar. Final grades will be based on a portfolio of assignments of which students will select what they consider to be the best examples of their work. Prerequisites: HISTORY 202, HISTORY 208 or equivalent
3 hrs

HISTORY 444  THE OTTOMAN EMPIRE IN THE MIDDLE EAST TO WORLD WAR I
The second semester of a three-semester sequence covers the transition from Arab to Turkish hegemony in most of the Middle East as well as the restoration of native Persian dynasties in Iran and their subsequent development. The emphasis is on the rise and decline of the Ottoman Turkish Empire. Attention is given to the Ottoman provinces and to the national movements of subject peoples. The course ends with an overview of World War I and the peace treaties which marked the dissolution of the Ottoman Empire. HISTORY 444R is not a prerequisite. Also offered as
HISTORY 470

ANCIENT EGYPT

This course describes the political, social and cultural evolution of ancient Egypt from pre-dynastic times, with major emphasis upon the Old, Middle, and New Kingdoms (especially the 18th dynasty and the reign of Akhenaton). Also offered as HISTORY 570R.

3 hrs

HISTORY 471

ANCIENT GREECE

This course begins with a survey of the pre-classical Minoan and Mycenaean civilizations and then describes the rise of prominent Greek city-states (with particular emphasis upon the evolution of Sparta and the political, social and cultural contributions of Athens). The course concludes with the rise of Macedon and Alexander’s conquests and significance. Also offered as HISTORY 571R.

3 hrs

HISTORY 471 P

ANCIENT WORLD: THE POLITICAL STRUCTURE OF THE ANCIENT WORLD

The four-hour lecture period on weeknights will emphasize the historical aspects of the ancient civilizations. The lectures will be chronologically organized to focus upon their evolution from their rise to their collapse.

4 hrs

HISTORY 472

ANCIENT ROME

This course covers Roman history from its origins (including the Brucans) to the decline of the imperial system. Particular emphasis is placed upon the political, social and economic developments in the Republic, the death of the Republic, the early Principate, and the factors that led to Rome’s decline in the ancient world. Also offered as HISTORY 572R.

3 hrs

HISTORY 472 P

ANCIENT WORLD: THE CULTURAL/INTELLECTUAL DIMENSION OF ANCIENT CIVILIZATION

The four weekend periods will provide the students with a general picture of these civilizations: society, religion, economics, and culture (w.f., art, literature, philosophy, science, etc.). Guest lecturers, slides, films and video cassettes will be used to introduce the varied aspects of these ancient peoples.

4 hrs

HISTORY 473

HISTORY OF ASTRONOMY

The course will examine how and why our views of the planets, the stars, and the universe have changed from Babylonian and Greek times to the 20th century. The course will consider such topics as ancient earth-centered cosmologies, the origin of astrology, the development and acceptance of the Copernican cosmology, the contributions of Newton, Galileo, Kepler and others to uncovering the laws of heavenly bodies, the gradually successful attempts to determine the distances to and composition of the stars, various interpretations of the Milky Way, and the eventual discovery of galaxies beyond our own, as well as touching on such other matters as early views of comets and “new” stars, the development of the telescope, the impact of photography, and early speculations on extraterrestrial life. Also offered as HISTORY 573R.

3 hrs
HISTORY 475 WI  THE HISTORY OF ANCIENT ISRAEL
Judaism has had a tremendous impact on our civilization and yet most Americans are only dimly aware of its origins and development. This course will trace the roots of the Jewish religion in its historical context from its beginnings through the formation of rabbinic culture. The rise of Christianity will be examined in its original Judaic context, and recent discoveries, particularly those pertaining to the Dead Sea Scrolls, will be interpreted. Offered: Fall
3 hrs

HISTORY 476  MEDIEVAL JEWISH HISTORY
This course covers the general period from the decline of the Roman Empire to the dawn of early modern times. It is concerned with Jewish centers of life and learning in the Diaspora, both East and West. The course considers the Jews under Islamic rule from the time of Mohammed through the Golden Age of Moorish Spain. The focus then shifts to the situation of the Jews in Christian Europe, from the period of Constantine to the expulsions from England, France and Christian Spain. The Jews in the Ottoman Empire are mentioned and the course ends with the episode of Sabbatai Zevi, the false Messiah. Also offered as HISTORY 576R.
3 hrs

HISTORY 477  MODERN JEWISH HISTORY
This course surveys modern Jewish history from the Napoleonic period to World War II. Analyzing the social status of the Jews in Medieval Europe, it proceeds towards a discussion of the growth of the national state and the breakup of the Holy Roman Empire and analyzes the growth of socialism, integral nationalism, and liberalism as they affected the Jewish communities in Europe and America. The course serves as a survey of modern political and economic trends as they affect a distinct group. Also offered as HISTORY 577R.
3 hrs

HISTORY 478  THE HOLOCAUST
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.
3 hrs

HISTORY 496  HISTORICAL RESEARCH PROJECT
Working extensively with an individual faculty member actively engaged in his/her research, students practice the multiple facets of investigating the sources of history, developing a comprehensive analysis from such sources, and composing a persuasive interpretation. Prerequisite: HISTORY 301WI and instructor's approval Offered: On demand.
1-3 hrs

HISTORY 497  SPECIAL TOPICS AND READINGS
Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies. On demand.
1-6 hrs

HISTORY 497 A  SPECIAL TOPICS AND READINGS
Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies. On demand.
1-6 hrs

HISTORY 498 WI  SENIOR CAPSTONE
This is the capstone course in the department and is required for majors in the senior year. It consists of tutorial sessions with a regular faculty member and independent research leading to a major paper using original source materials. Performance in this course will weigh heavily in the award of departmental honors. Prerequisites: HISTORY 301 and successful completion of the WEPT.
3 hrs

HISTORY H201  HONORS: WESTERN CIVILIZATION TO 1600
3 hrs

HISTORY H201  WESTERN CIVILIZATION TO 1600
This course surveys the political, social and cultural history of Europe from ancient times to 1600. Beginning with a brief description of the riverine civilizations of the ancient Near East, the course then examines the political and cultural evolution of classical Greco-Roman civilization, the medieval world, the rise of the national state, and the essential characteristics of the eras of the Renaissance and Reformation. Fall, Summer, Winter.
3 hrs

HISTORY H202  HONORS: WESTERN CIVILIZATION SINCE 1600
3 hrs

HISTORY H208  WORLD CIVILIZATION SINCE 1600
This course surveys the social, economic, political and institutional history of the world from the 17th century to the present. It is designed to foster deeper understanding of the continuity between past and present and of the interdependence among nations in contemporary times.
3 hrs

HISTORY H444 R  ISLAM AND THE ARABS: THE FORMATIVE PERIOD
The first semester of a three-semester sequence begins with a brief overview of the geography and topography of the Middle East. The course proceeds with a discussion of the conditions of pre-Islamic Arabia; the appearance of Muhammad and his mission; the rise and spread of Islam; the establishment and consolidation of the Arab dynasties in the Middle East, North Africa and Spain; Islamic institutions; and Islamic society and culture. The time span will be approximately 500 A.D. to the Mongol conquest of Baghdad in 1258. Also offered as HISTORY 544.
3 hrs

ITALIAN
ITALIAN 110  ELEMENTARY ITALIAN I
Intended to give the student the ability to read prose of ordinary difficulty and to understand and speak simple Italian. Fall.
ITALIAN 120  ELEMENTARY ITALIAN II
Continuation of ITALIAN 110. Winter. Prerequisite(s): ITALIAN 110 or equivalent.

ITALIAN 211  SECOND YEAR ITALIAN I
Further development of comprehension and communicative skills in the language. Readings of moderate difficulty and grammar review. Practice in writing. The goal is attainment of intermediate proficiency in the language. Prerequisite: ITALIAN 120. Fall.

ITALIAN 221  SECOND YEAR ITALIAN II
Continuation of ITALIAN 211. Winter.

ITALIAN 280  SPECIAL INTERMEDIATE ITALIAN TOPICS I
Instruction of Italian on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed.

ITALIAN 290  SPECIAL INTERMEDIATE ITALIAN TOPICS II
Continuation of ITALIAN 280. May not be repeated for credit. As needed.

LATIN

LATIN 110  ELEMENTARY LATIN I
Fundamentals of grammar and syntax; selected passages from various Latin authors concluding with readings from Caesar. Every fall.

LATIN 120  ELEMENTARY LATIN II
Continuation of LATIN 110. Every Winter. Prerequisite(s): LATIN 110 or equivalent.

LATIN 211  SECOND YEAR LATIN READINGS I
Selected readings from works by various Latin authors. Grammar review. Prerequisite: LATIN120. Fall.

LATIN 221  SECOND YEAR LATIN READINGS II
Continuation of LATIN 211. Winter.

LATIN 280  SPECIAL INTERMEDIATE LATIN TOPICS I
Instruction of Latin on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed.

LATIN 290  SPECIAL INTERMEDIATE LATIN TOPICS II
Continuation of LATIN 280. May not be repeated for credit. As needed.

LATIN 490  SPECIAL READINGS IN LATIN
Intensive readings in period or genre or literary figure to be selected by the student in consultation with the instructor. Available only to advanced Latin students.

MATHEMATICS

MATH 100  INTERMEDIATE ALGEBRA
Numbers and their arithmetic properties, introduction to elementary algebra including exponents and radicals, elementary geometry and formulas, linear and quadratic functions and their graphs, and equations with two unknowns. Given on credit, no-credit basis. Does not fulfill Arts and Sciences mathematics requirement. Does not count toward graduation. Fall, Winter,

3 hrs

MATH 105  THE LANGUAGE OF MATHEMATICS
Reading comprehension and writing skills in the language of Mathematics; grammar, syntax and logic, understanding, expressing, proving; recognizing and employing common patterns of mathematical thought; emphasizing not what is said, but how it is said. Particularly useful to students returning to school after a long hiatus, the math-anxious, students with weak skills, and those interested in elementary or middle school teaching. Prerequisite: Three units of high school mathematics

3 hrs

MATH 110  COLLEGE ALGEBRA
Review of elementary algebra, solution of equations, functions, exponential and logarithmic functions, inequalities, systems of linear equations, equations of second degree and their graphs, binomial theorem, complex numbers, and polynomials. Credit will not be given for both MATH 110 and MATH 120. Prerequisite: Three units of high school mathematics (Algebra I and higher) or MATH 100. Fall, winter, summer.

3 hrs

MATH 116  MATHEMATICS FOR LIBERAL ARTS
A survey of elementary mathematics covering such topics as: logic, sets, counting methods, introduction to probability theory, introductory statistics, plane and coordinate geometry. The course will emphasize mathematical concepts and does not require the level of computational skill of College Algebra. Topics from the history of mathematics will be presented as well as the influence of mathematics on a variety of disciplines. Prerequisite: Three units of high school mathematics (Algebra I and higher). Offered: Fall, Winter

3 hrs

MATH 120  PRECALCULUS
Review of elementary algebra, solution of equations, functions, inequalities, systems of linear equations, exponential and logarithmic functions, trigonometric functions, trigonometric identities, triangles, equations of second degree and their graphs, binomial theorem, complex numbers, and polynomials. Credit will not be given for both MATH 120 and MATH 110 or for both MATH 120 and MATH 125. Prerequisites: Three units of high school mathematics (Algebra I or higher) or MATH 100. Fall, Winter, Summer.

5 hrs

MATH 125  TRIGONOMETRY
Trigonometric functions, trigonometric identities, triangles, and complex numbers. Credit will not be given for both MATH 125 and MATH 120. Prerequisite: Two units of high school algebra and one unit of geometry, or MATH 110. Fall, winter, summer.

2 hrs

MATH 130  MATHEMATICS FOR TEACHERS: NUMBER SYSTEMS
Designed for elementary school teachers. A constructive development of the real number system beginning with the system of whole numbers; concepts from elementary number theory; applications of quantitative systems to problems in discrete mathematics. Prerequisite: High school algebra and geometry. Offered: Fall, Winter, Summer

3 hrs

MATH 140  MATHEMATICS FOR TEACHERS: ELEMENTARY GEOMETRY
Designed for elementary school teachers. A development from informal geometric concepts to elements of the Euclidean deductive system; groups of congruence transformations, similarity transformations and symmetries; coordinate systems and vectors. Prerequisite: High school algebra and geometry. Fall/Winter

3 hrs

MATH 204  MATHEMATICS FOR TEACHERS: MATHEMATICAL IMMERSION
Adaptable for elementary, middle, or secondary-school mathematics teachers. Intensive summer experience. Develop confidence and enthusiasm about recognizing mathematics reasoning in oneself and in students. Combat mathematics anxiety and myths. Encourage flexibility in the mathematical knowledge of teacher candidates. Prerequisites: MATH 120, 130, 140, or any mathematics course numbered 200 or above. Offered: Summer

3 hrs

MATH 205  DISCRETE MATHEMATICS
Logic, sets, and functions. Algorithms, especially integer algorithms. Methods of proof, especially induction and recursion, counting principles, and discrete probability. Relations and partial ordering with applications. Graphs, circuits, and paths. Prerequisite: 4 units of high school math, or MATH 110. Offered: Fall, winter, summer.

3 hrs

MATH 206  BRIEF CALCULUS AND MATRIX ALGEBRA
Brief review of selected topics in algebra. Introduction to matrix algebra. Introduction to differential calculus and optimization. Applications to problems in business. Credit will not be given for both MATH 160 and MATH 206. Prerequisite: MATH 110, or equivalent Offered: Every semester

3 hrs

MATH 210  CALCULUS I
Functions and graphs, rational, trigonometric, exponential functions, composite and inverse functions, limits and continuity, differentiation and its applications, integration and its applications. Prerequisite: Four units of high school mathematics including trigonometry, or MATH 120, or MATH 110 and MATH 125, or MATH 202. Offered: Fall, Winter, and Summer

4 hrs

MATH 214  MATHEMATICS FOR TEACHERS: ALGEBRAIC STRUCTURES
Designed for middle school mathematics teachers. Algebraic reasoning, patterns and inductive reasoning, arithmetic and algebra of integers, algebraic systems, algebraic modeling in geometry, axiomatic mathematics. Prerequisites: MATH 130, and one of MATH 140 or MATH 224 Offered: Fall/Winter

3 hrs

MATH 220  CALCULUS II
Techniques of integration, applications of the definite integral, improper integrals, sequences and series, power series. Taylor series and convergence, analytic geometry in calculus. Prerequisite: MATH 210. Fall, Winter, Summer.

4 hrs

MATH 224 Mathematics for Teachers: Geometry
Designed for middle school mathematics teachers to connect middle school and college mathematics. Geometric reasoning, Euclidean geometry, congruence, area and volume, similarity, rigid motions and symmetry, vectors and transformations, some other geometries. Prerequisites: MATH 130, MATH 140 is recommended Offered: Fall/Winter

3 hrs

MATH 244 Mathematics for Teachers: Calculus
Designed for elementary-and middle-school mathematics teachers. Elementary calculus, beginning with sequences and series, proceeding to functions, limits, continuity, differentiation and integration. Focus on concepts and applications with a discovery and inquiry approach. Prerequisites: Four units of high school mathematics including Trigonometry, or MATH 120, or MATH 110 and MATH 125. Offered: Winter

3 hrs

MATH 250 Calculus III
Vectors, solid analytic geometry, vector functions and multiple variable functions, partial derivatives, multiple integrals, line and surface integrals with applications. Prerequisite: MATH 220. Fall, Winter, Summer

4 hrs

MATH 300 Linear Algebra I
Vectors, matrices, linear equations, matrix algebra, determinants, vector spaces, linear transformations, vector spaces with an inner product. Prerequisite: MATH 250, or consent of instructor Offered: Fall, Winter

3 hrs

MATH 301 On Solid Ground: Sets and Proofs
Transition to advanced mathematics, elements of set theory and cardinality of sets, logic, mathematical proof techniques, induction, functions, elementary proofs in various subjects such as algebra, number theory, calculus, and others as time permits. Satisfies a state requirement for teacher certification. Prerequisite: MATH 220

3 hrs

MATH 345 Ordinary Differential Equations
First order equations, linear second order differential equations, Taylor series and power series solutions, Laplace transforms, elementary systems of differential equations, numerical methods, and Fourier series and boundary value problems. Prerequisite: MATH 250. Fall, winter, summer.

4 hrs

MATH 400 Introduction to Number Theory
Congruences and residue classes. The theorems of Euler and Fermat. Primitive roots and indices. Quadratic residues. The Legendre and Jacobi symbols, the law of quadratic reciprocity. Number theoretic functions: the Euler phi-function, the Moebius inversion formula. Quadratic forms. The approximation of irrationals by rationals. Prerequisite: MATH 301

3 hrs

MATH 402 Advanced Analysis I
Numerical sequences and completeness of the real numbers, numerical series, continuity and differentiation of real-valued functions of a real variable, integration and the fundamental theorem of calculus. Prerequisite: MATH 250 and MATH 301

3 hrs

MATH 406 Partial Differential Equations
Separation of variables, boundary value problems, Fourier series and integrals, wave equation, heat equation, potential equation, problems in several dimensions, and Bessel's differential equation. Prerequisite: MATH 345. Offered: Winter.

3 hrs

MATH 407 Introduction to Complex Variables
Complex numbers, complex differentiation, elementary functions, contour integration and the Cauchy integral formula, Taylor series and Laurent series, residue calculus and its applications, and special functions. Prerequisites: MATH 250, and one of MATH 300, MATH 301, or MATH 345, with MATH 301 recommended Offered: Fall

3 hrs

MATH 410 Modern Algebra
Groups, rings, integral domains, fields and polynomial rings. Prerequisite: MATH 300 and MATH 301.

3 hrs

MATH 412 Advanced Analysis II
Topics in advanced analysis such as sequences and series of functions, power series and elementary functions, Fourier series, metric spaces, analysis in Euclidean spaces, or advanced integration. Prerequisite: MATH 402 or consent of instructor Offered: Winter

3 hrs

MATH 414 Mathematics for Secondary Teachers: Algebra and Analysis
Designed for secondary-school teachers. Examine high school mathematics from a higher point of view. Real and complex numbers, functions, algebraic structures of equations, integers and polynomials, number system structures; analyses of alternate approaches, extensions, and applications of mathematical ideas, discussion of historical contexts and connections between ideas that may have been studied separately in different courses, relationships of ideas studied in secondary-school to those students may encounter in later study. When taken for graduate credit as MATH 5514, an extra project is required. Prerequisites: MATH 220, MATH 301, and one of MATH 402 or MATH 410 Offered: Winter

3 hrs
MATH 420  LINEAR ALGEBRA II
Vector spaces and linear transformations, eigenvalues and eigenvectors, vector spaces with an inner product, orthogonality, least squares approximation, quadratic forms singular value decomposition, the theory of determinants. Prerequisite: MATH 300 Offered: Winter
3 hrs

MATH 424  MATHEMATICS FOR SECONDARY TEACHERS: GEOMETRY
Designed for secondary-school teachers. Examine high school mathematics from a higher point of view. Congruence, distance and similarity, trigonometry, area and volume, axiomatics and Euclidean geometry; analyses of alternate approaches, extensions, and applications of mathematical ideas, discussion of historical contexts and connections between ideas that may have been studied separately in different courses, relationships of ideas studied in secondary-school to those students may encounter in later study. When taken for graduate credit as MATH 5524, an extra project is required. Prerequisite: MATH 220, MATH 301, and one of MATH 402 or MATH 410 Offered: Fall or Winter as needed
3 hrs

MATH 430  NUMERICAL ANALYSIS I
Error analysis, solutions of equations of one variable, interpolation and polynomial approximation, numerical integration and differentiation, numerical solutions of initial-value problems. Prerequisite: MATH 250
3 hrs

MATH 440  NUMERICAL ANALYSIS II
Direct and iterative methods for solving linear systems, introduction to approximation theory, approximating eigenvalues and eigenvectors, solution of systems of nonlinear equations. Prerequisites: MATH 300 and MATH 430, or consent of instructor Offered: Winter
3 hrs

MATH 444  MODERN GEOMETRIES
Modern axiomatic development of Euclidean geometry and neutral geometry, followed by examination of non-Euclidean geometries; geometric transformations, and other geometries as time permits. Satisfies a state requirement for teacher certification. Prerequisites: MATH 300 and MATH 301
3 hrs

MATH 464 WI  HISTORY OF MATHEMATICS
Topics in the History of Mathematics from Babylonian times through the invention and consolidation of Calculus, with some modern subjects as time permits. The course will emphasize proofs, ideas, and arguments as given in original sources (in translation) from around the world and throughout history. In this writing intensive course, one or two term papers, in addition to several short essays and historical proof explications are required. A field trip will be taken to the Linda Hall Library Rare Book Room. This course is of special interest to secondary mathematics teachers as well as mathematics majors. Prerequisites: MATH 300 or MATH 301. MATH 301 is recommended.
3 hrs

MATH 490  SPECIAL TOPICS
Selected topics in various fields of mathematics. May be repeated for credit when the topic varies. Prerequisite: consent of instructor. On demand.
1-3 hrs

MILITARY SCIENCE
MIL-SCI 100  INTRODUCTION TO MILITARY OPERATIONS
Introduction into the areas of: leadership, role of the Army (to include the citizen soldier concept), organization of the Army, U.S. Constitution, customs and traditions of the service, and the role of the officer and NCO. Offered: Fall/Winter.
1 hr

MIL-SCI 105  INTRODUCTION TO SURVIVAL SKILLS AND RAPPELLING
Techniques for survival: Direction finding, basic land navigation, primitive fire starting, water purification. Basic rappelling and rope bridging, knot tying and rope management. All College of Arts and Sciences students who complete this course can receive physical education credit. Offered: Fall/Winter.
1 hr

MIL-SCI 201  INTRODUCTION TO MILITARY LEADERSHIP AND COMMUNICATION
Introduces students to duties of an officer, providing an overview of the unique purpose, roles and obligation of commissioned officers. It includes a detailed look at the origin of our institutional values and their practical application. Prerequisite: None Offered: None Restrictions: None
2 hrs

MIL-SCI 202  MILITARY LEADERSHIP & COMMUNICATION II
This course focuses principally on officership, providing an extensive examination of the unique purpose, roles and obligations of commissioned officers. It provides an introduction to tactics and a detailed look at the origin of our institutional values and their practical application. Prerequisite: None Offered: Winter Restrictions: None
2 hrs

MIL-SCI 205  RESERVE OFFICER TRAINING CORPS
Five weeks of preparatory training at Fort Knox, Kentucky. Travel pay and salary stipend provided through Military Science Department. The student is not obligated to any military service as a result of attending Basic Camp. Camp graduates are eligible to enroll in advanced military science courses and may be considered for a commission as a second lieutenant in the U. S. Army, Army Reserves or National Guard. Students are also eligible to compete for a full-tuition two-year scholarships. All College of Arts and Sciences students who complete this course can receive Physical Education credit.
3 hrs

MIL-SCI 210  MAP READING AND LAND NAVIGATION
Introduction to map reading, terrain analysis, orienteering and day/night land navigation techniques and considerations. Includes several practical exercises in which students navigate with the use of a compass and terrain association. Prerequisite: None. Offered: Winter.
1 hr
MIL-SCI 220  \textbf{URBAN AND FIELD SURVIVAL SKILLS}
Psychology of survival, preparedness; emergency water, food and shelter; fire starting; direction finding, water survival, Biological Terrorism and selected First Aid topics. All College of Arts and Sciences students who complete this course can receive physical education credit. Offered: Winter

\textbf{1 hr}

MIL-SCI 300  \textbf{LEADERSHIP AND MANAGEMENT I}
Investigates organizational leadership styles, effective managerial and leadership traits, and military ethics; includes a review of the military correspondence formats and writing techniques. Prerequisite: Advanced placement by ROTC instructor. Offered: Fall.

\textbf{3 hrs}

MIL-SCI 310  \textbf{SMALL UNIT LEADERSHIP AND TACTICS}
Study of electronic communications and techniques. Advanced study is conducted in the areas of land navigation, branches and functions of the U.S. Army and selected military skills. Emphasis is placed upon preparation for advanced camp. Prerequisite: Advanced placement by ROTC instructor. Offered: Winter.

\textbf{3 hrs}

MIL-SCI 400  \textbf{LEADERSHIP AND MANAGEMENT II}
Discussion and application of the principles of military organization and management. Includes the comprehensive study of executive decision making and communication and the Army Training Management System. Prerequisites: Completion of MIL-SCI 300 and MIL-SCI 310. Offered: Fall.

\textbf{3 hrs}

MIL-SCI 410  \textbf{ARMY MANAGEMENT AND ORGANIZATIONAL SYSTEMS}
Study of the Army Personnel Management System, the Uniform Code of Military Justice and the Army legal system; and selected topics in leadership management and decision making. Prerequisites: Completion of MIL-SCI 300 and MIL-SCI 310 or consent of the department chairperson. Offered: Winter.

\textbf{3 hrs}

MIL-SCI 497  \textbf{LEADERSHIP AND MANAGEMENT PRACTICUM - DIRECTED STUDY}
Practical application in military problem analysis, decision making, planning and organization, delegation and control, and development of interpersonal skills required for effective management. Prerequisite: Instructor's approval. Offered: Summer.

\textbf{1-3 hrs}

PACE - \textbf{AMERICAN STUDIES}
\textbf{AMER-ST 301 P} \textbf{AMERICAN STUDIES/IS/TUTORIAL: THEMES IN THE AMERICAN POPULAR ARTS}
This course uses the popular arts as an entree to the examination of stereotypes in American life, to a better understanding of challenges to tradition, and to assessing the consequences of conflict that have resulted from cultural pluralism. This is a modified independent study course. Students are exposed to some of America’s best-known literature, films and music. Instructional audio tapes and traditional literature about American Culture show the relevance of examples of popular art to broader themes. Prerequisites: Concurrent enrollment in AMER-ST 302P and AMER-ST 303PW. Offered: On demand.

\textbf{P}

\textbf{4 hrs}

\textbf{AMER-ST 302 P} \textbf{SURVEY OF AMERICAN STUDIES}
This course offers a look at changes and continuities in American life from the era of British colonization to the present. It emphasizes philosophical, scientific and creative ideas that have had lasting effects, changing social structure, the factors that determine lifestyle, and the consequences of the national preoccupation with pluralism and consensus. The course also covers the main features of American political history. Prerequisite: Concurrent enrollment in AMER-ST 303PW. Offered: On demand.

\textbf{P}

\textbf{4 hrs}

\textbf{AMER-ST 340 PP} \textbf{AMERICAN MATERIAL CULTURE: THE 1950s}
This course will focus on the period of American culture from demobilization after World War II to the end of the 1950s—an era particularly well-suited to employing material culture resources as evidence. Students will be required to write a term paper or do a material culture project.

\textbf{P}

\textbf{4 hrs}

PACE - \textbf{ART}
\textbf{ART 101 P} \textbf{TOPICAL STUDIES}

\textbf{P}

\textbf{3 hrs}

PACE - \textbf{ARTS AND SCIENCES}
\textbf{A&S 400 A} \textbf{SPECIAL READINGS/TOPICS}

\textbf{B}

\textbf{1-6 hrs}

\textbf{A&S 400 D} \textbf{SPECIAL READINGS/TOPICS}

\textbf{B}

\textbf{1-6 hrs}

\textbf{A&S 400 F} \textbf{SPECIAL READINGS/TOPICS}

\textbf{B}
A one-semester survey of basic chemistry including: atomic structure, the periodic table, chemical bonding, chemical reactions, and selected topics from organic, polymer and biochemistry. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 181P. Prerequisite: College Algebra or equivalent. This course is equivalent to CHEM 115.

CHEM 181P - EXPERIMENTAL BASIC CHEMISTRY
A demonstration/laboratory course designed to support and illustrate the concepts presented in CHEM 180P. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 180P. Prerequisite: College Algebra or equivalent. This course is equivalent to CHEM 115L.

CHEM 182P - SPECIAL PROJECTS IN CHEMISTRY
An independent study course consisting of library work and field work designed to exemplify various applied aspects of chemistry. A terminal course that does not meet requirements as a prerequisite for any higher level chemistry course. Corequisite: CHEM 180P. Prerequisite: College Algebra or equivalent.

PACE - COMMUNICATION AND INFORMATION TECHNOLOGY

CIT 105P - FOUNDATIONS OF COMPUTING AND PROBLEM SOLVING
This course covers the fundamentals of computer use, problem solving, and programming. Specific topics include: the general use of micro and mainframe computers, algorithm design, the relation of algorithms to programs, the fundamentals of programming in the PASCAL language, and program debugging techniques. This course is presented only in a PACE program format. Prerequisite: Co-enrollment in MATH 110.

CIT 106P - COMPUTERS: THEIR USES AND IMPACT
This course covers the history of computing, concepts in and classes of computer hardware and software, classes of computer application, economic issues in the development of computer hardware and software products, and philosophical, social and legal issues in the use (and abuse) of computer technology. This course is presented only in a PACE program format.

CIT 310P - WEB DESIGN & DEVELOPMENT
This three hour course, Web Design and Development, is designed to introduce the student to the Hyper Text Markup Language (HTML) and its use for the development of web pages. This course is offered online and no scheduled classroom attendance will be required. Correspondence through emails and the class forum is strongly encouraged. Prerequisite: COMP-SCI 105p or consent of instructor.

CIT 315P - WEB GRAPHICS & MULTIMEDIA
This three hour course, Web Graphics and Multimedia, is a continuation to Web Design and Development. The course material will cover different development tools used to incorporate graphics, sounds, and videos into web pages. This course is offered online and no scheduled classroom attendance will be required. Correspondence through emails and the class forum is required. Prerequisite: COMP-SCI 105p or consent of instructor.

CIT 420P - CGI PERL
CGI Perl teaches CGI scripting techniques using the CGI.pm Perl module. Students learn how to create on-demand, server-based HTML; write and process fill-out forms; write responses to form submissions back to the client browser; store and process cookies; handle file uploads securely; create, read, and write to text databases. Students also explore CGI Perl's role in server push technology and continuous page updating. Students are not required to have previous Perl programming experience, although a through knowledge of HTML is necessary. Prerequisite: COMP-SCI 1122p or consent of instructor.

PACE - COMMUNICATION STUDIES

COMM-ST 361 - BROADCAST MANAGEMENT
An analysis of the trends, patterns and methods of radio and television operations. Prerequisite: COMM-ST 308. Offered: On demand.
PACE - ECONOMICS

**ECON 353  FINANCIAL ANALYSIS AND THE ECONOMY**
This course examines techniques of financial evaluation used by individuals, corporate managers, and portfolio analysts. Focus of the course will be on the interaction of the mechanics of analytical methods and economic activity. Topics covered will include individual portfolio building, asset evaluation, and financial market theory. Prerequisites: ECON 201 and ECON 202. Offered: Winter odd years.

**ECON 353 P**  FINANCIAL ANALYSIS AND THE ECONOMY

**ECON 486  LABOR ECONOMICS**
An examination of the theories of wage determination, the economic effects of wage determination upon the wage structure, the distribution of national income, employment, and an introduction to collective bargaining. Prerequisite: ECON 302. On request.

PACE - ENGLISH

**ENGLISH 352 P  CRITICAL APPROACHES TO THE SHORT STORY**
In this course the student will explore the short story as a literary genre. Stories will range from the early masters such as Chekov, Kafka, and Hawthorne through contemporary offerings from Lessing, Mishima, and Achebe. Several critical approaches will be presented including formalism, New Historicism, and race/class/gender criticism. Students will keep a reading journal covering all material read for the course, and will be assessed on the basis of this journal, a mid-term and a final examination. Prerequisites: None.

**ENGLISH 353 PW  CRITICAL REVIEW & EVALUATION OF FICTION & FILM (WRITING INTENSIVE)**
The weekend component of this block meets one weekend per month for a total of 70 contact hours. The goal of the course is to improve students' writing skills along with their ability to read and analyze texts, both literary and cinematic. During the course students will read four novels and a set of critical essays, one for each weekend, which will be followed by viewing and discussing a film adaptation of the novel in class. Various critical approaches will be included in the reading and will be discussed in class in an effort to enable students to apply these critical principles in their own critical essays. Because the class meets only one weekend per month and a process approach to writing is utilized, students will be encouraged to use the facilities of the Internet to share drafts of their essays with their peer revision group members and with the instructors during the weeks between class meetings. Students will bring revised drafts of their work to the weekend meeting where a significant amount of class time will be spent in writing workshops. Students will be assessed on the basis of their portfolios of critical writing consisting of four major essays and an extensive cover letter, their reading/viewing journals, and their participation, both in class and in peer response groups. Prerequisites: WEPT. Offered: 1 weekend/month for 4 months.

**ENGLISH 354 P  MASTERPIECES OF FICTION**
The goal of this independent study is to provide the student with time and space to read and respond to 7-9 critically acclaimed and classic novels. Students will be allowed to choose the novels they wish to read from a list of 50 that will be provided by the instructors. This course must be taken in conjunction with at least one of the other two courses in this block in order to ensure that the student has exposure to literary theory. Students will be assessed on the basis of their response journal, casual oral examination, and a critical essay. Prerequisites: None.

**ENGLISH 460 PW  WRITTEN DISCOURSE: SPEAKING, WRITING, COMPOSING**
Prerequisite: Successful completion of the WEPT (effective FS93).

PACE - HISTORY

**HISTORY 330 PW  THE WORKS OF WESTERN MAN**
In the period 1750-1987, the nations bordering the Atlantic Ocean, largely relying on their technological advances, became world powers. This course, relying on analysis of films plus required readings, will survey the energy sources employed, the tools developed, and the regimes of the workplace which led to this dominance. Grades will be assigned to three types of exercises: frequent quizzes, a mini-project in historical research and a book critique of a piece of fiction. Prerequisite: Successful completion of the WEPT (effective FS93).
This weeknight course will examine the emergence of bureaucracies as the modern method of collective problem solving. In the U.S. political context, this involves the dynamic interplay of rational choice, due process and pluralistic politics. The transitions from limited to positive government and then to the current ethos of deregulation will be studied.

3 hrs

POL-SCI 409 P BUREAUCRATIC POLITICS

This weeknight course will examine the emergence of bureaucracies as the modern method of collective problem solving. In the U.S. political context, this involves the dynamic interplay of rational choice, due process and pluralistic politics. The transitions from limited to positive government and then to the current ethos of deregulation will be studied.

3 hrs
PACE - SOCIOLOGY PHILOSOPHY (PHILOS)

PHILOS 210  FOUNDATIONS OF PHILOSOPHY
An introduction to the principal problems with which philosophy is concerned: methods of inquiry; rules of correct reasoning; analysis of values and value systems; appraisals of basic beliefs and attitudes. Emphasis is on the contribution of important movements and major philosophers and on the relevance of philosophy to religious, political, social, and scientific issues. Prerequisite: Sophomore standing or consent of the instructor.

3 hrs

PHILOS 221  CONTEMPORARY MORAL ISSUES
This course offers a philosophical examination of ethical issues in contemporary society. Topics for discussion include ethical conflicts arising in business and technology, engineering, healthcare, politics, and the environment. Moral concerns addressed may include reproductive rights and technologies, warfare, capital punishment, pornography, privacy, consumerism, euthanasia, sexuality, and animal welfare.

3 hrs

PHILOS 222  FOUNDATIONS OF LOGIC AND SCIENTIFIC METHOD
An introduction to the logic of evidence. Attention is given to language analysis, fallacies of reasoning, deductive and inductive procedures, subjective factors of reasoning and scientific method. Emphasis is on the practical application of basic principles to the analysis of ethical, economic, political, and scientific physical arguments and theories. Prerequisite: Sophomore standing or consent of the instructor.

3 hrs

PHILOS 300 CK  CLUSTER COURSE: CONTROVERSY AND CHOICE IN LIFE AND SCIENCE
An examination of advances in the health and life sciences that involve methodological questions about the pursuit and acceptance of theories. Procedures for choosing and conducting research will be analyzed using a model that incorporates existing knowledge. Assessment and management of research are also explored. Participating guests will present solutions derived.

3 hrs

PHILOS 310 WI  ANCIENT PHILOSOPHY
A survey of the central figures of classical philosophy: the pre-Socratics, Socrates, Plato, Aristotle, the Stoics, the Epicureans and other philosophers of antiquity. The contributions of major philosophers to the development of science, religion, and social and political theories are studied. Prerequisites: PHILOS 210, PHILOS 222 or an equivalent and successful completion of the WEPT. Offered: Fall.

3 hrs

PHILOS 315  LOGIC AND METHODOLOGY IN THE HEALTH AND SOCIAL SCIENCES
Analysis of the reasoning processes and theory-building procedures specific to the health and social sciences. As its major focus, the course will critically examine the philosophical foundations of the health and social sciences using the case study method. In addition, brief case study analyses of reasoning and theory-construction in the physical sciences will be offered in comparison. Prerequisite: PHILOS 210, PHILOS 222.

3 hrs

PHILOS 320 WI  DESCARTES TO HUME
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: PHILOS 210, or PHILOS 222 or an equivalent and successful completion of the WEPT. Offered: Winter.

3 hrs
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOS 321</td>
<td>ETHICS</td>
<td>Attention is given to the nature of ethical ideas and the development and history of ethical theory. Prerequisites: PHILOS 210, PHILOS 221, or PHILOS 222, or with permission of instructor.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHILOS 325</td>
<td>AESTHETICS</td>
<td>The basic problems of aesthetics are examined, with special emphasis on the character of the work of art, the aesthetic response of the viewer, the creative process of the artist, and the nature of aesthetic criticism. These topics are discussed in light of conflicting aesthetic theories. Prerequisite: PHILOS 210, PHILOS 222, or equivalent.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHILOS 326</td>
<td>EPISTEMOLOGY: THEORIES OF KNOWLEDGE</td>
<td>A study of the problems connected with the nature of knowledge and human understanding. Prerequisite: PHILOS 210, 222 or an equivalent.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHILOS 327</td>
<td>METAPHYSICS: THEORIES OF REALITY</td>
<td>An investigation of the essential problems regarding the nature of reality in its most general aspects. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHILOS 328</td>
<td>PHILOSOPHY IN THE MIDDLE AGES</td>
<td>The history of philosophy from St. Augustine to William of Ockham, including analysis of the relationships of medieval philosophical developments to earlier and later philosophical developments. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHILOS 329</td>
<td>AMERICAN PHILOSOPHY</td>
<td>The main trends of American thought are covered, with special emphasis on the philosophies of Peirce, James and Dewey. Prerequisite: PHILOS 210 or PHILOS 215 or PHILOS 222 or an equivalent.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHILOS 330</td>
<td>19TH-CENTURY PHILOSOPHY</td>
<td>Following a review of the influence of Kant on European thought, consideration is given to the German idealists, Comte and Positivism, Mill and Empiricism, British Neo-Hegelianism, the rise of Evolutionary Philosophy and Nietzsche. Prerequisites: PHILOS 210 or PHILOS 215 or PHILOS 222 or an equivalent.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHILOS 331</td>
<td>PHILOSOPHY OF RELIGION</td>
<td>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.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHILOS 332</td>
<td>EXISTENTIALISM</td>
<td>A study of the development of existentialism. Selections from the works of such thinkers as Kierkegaard, Nietzsche, Sartre, Heidegger, Camus and other related philosophers are considered. Special attention is devoted to the existential movements in literature, social science and medicine. Prerequisite: PHILOS 210, PHILOS 222 or equivalent.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHILOS 333</td>
<td>SOCIAL AND POLITICAL PHILOSOPHY</td>
<td>A consideration of representative views of the place of man in contemporary society. Contributions in psychology, political theory, economics, sociology and anthropology are investigated philosophically with a view toward offering a critical appraisal of the nature of man in the human community. No prerequisites.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHILOS 334</td>
<td>PHILOSOPHY OF SCIENCE</td>
<td>A critical analysis of the assumptions, methods and conceptual frameworks of the sciences. The course emphasizes such topics as the influence of theory on observation; the problem of discovery, verification and experimental confirmation; and the relation of scientific language and concepts to ordinary language and beliefs. Prerequisite: PHILOS 222.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHILOS 335</td>
<td>PHILOSOPHY OF MIND</td>
<td>A study of problems arising in connection with such topics as mental phenomena, the relation of mind to body, free will and determinism, the self and personal identity, and “thinking” machines. Classical and contemporary treatments of such concepts as “mind,” “intention,” “sensation,” “perception,” “stimulus,” etc., and their relation to action and behavior are considered. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHILOS 336</td>
<td>PHILOSOPHY OF LANGUAGE</td>
<td>A study of the nature and uses of language, with special reference to concepts of meaning, denotation, reference, syntax, name, metaphor, vagueness, and definition. Applications in the fields of psychology, linguistics, anthropology, and literary criticism are examined. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHILOS 337</td>
<td>PHILOSOPHY OF HISTORY</td>
<td>A discussion of methodological and substantive issues, including the nature of historical explanation, whether history can be a science, and various theories of history such as those of Vico, Hegel, Marx, and Collingwood. Prerequisite: PHILOS 210, PHILOS 215, PHILOS 222 or an equivalent.</td>
<td></td>
<td>3 hrs</td>
</tr>
</tbody>
</table>
This course is a survey of major British philosophers. Among those who will be studied are Thomas Hobbes, John Locke, David Hume, J.S. Mill, E.H. Bradley, and Bertrand Russell. The influence of Selected portions of Aristotle's works on logic, metaphysics, science, ethics, politics, and poetics are studied with a view to understanding Aristotle's philosophy and its position in the world of Greece and antiquity. Aristotle's philosophy is examined with reference to its place in the Western tradition and in modern philosophy. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

3 hrs

PHILOS 350  CASE STUDIES IN THE METHODOLOGIES OF SCIENCE
Topics in the methodology of science are considered through an examination of case studies in the history of science. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

3 hrs

PHILOS 360  CURRENT ISSUES IN BIOETHICS
Alternative approaches to issues such as life and death, human experimentation, the scarcity of resources, contraception, abortion, euthanasia, eugenesics, etc. will be discussed critically. Major theories of ethics will be applied to several of the issues in order to have the student develop his or her own approach to ethical decision making in the area of bioethics. No prerequisites.

3 hrs

PHILOS 370  ENVIRONMENTAL ETHICS AND POLICY
Various philosophical approaches to issues such as the value of nature, human obligations to non-human animals, species, ecosystems and future generations; environmental justice; restoration; resource use; environmental politics; and the relation between environmental issues, policy and ethics will be discussed critically. Prerequisite: None Offered: Annually Restrictions: None

3 hrs

PHILOS 400  INTERDISCIPLINARY STUDIES: CLUSTER COURSE OFFERINGS

3 hrs

PHILOS 400 CJ  CLUSTER COURSE: AESTHETIC ISSUES IN THE ARTS
Specialists in various art forms (e.g., literature, music, painting) will discuss specific artworks from their own perspective as artists and/or critics. This gives the student first-hand experience of how questions dealt with in the philosophy of art arise. Using this common core of examples, philosophical issues such as relevance of artists' intentions to interpretation and evaluation, the nature of aesthetic value, the nature and significance of comedy, and special issues raised by contemporary developments in the arts are discussed.

3 hrs

PHILOS 400 CO  CLUSTER COURSE: ISSUES IN DEATH AND DYING
A study of the various philosophical dimensions of death and dying in the history of thought from the pre-Socratics through the contemporary existentialist philosophers. Topics to be critically examined will include the ethical, religious and legal implications of the changing definitions of death, active and passive euthanasia, suicide, the ethical aspects of truth telling, and the impact of technological and scientific advancements as they relate to the rights and dignity of the dying patient and survivors as well as special populations such as children and incapacitated persons. The philosophical dimensions of death and dying will include epistemological, metaphysical, ethical and hermeneutic aspects. Alternate theories and approaches to ethical decision making concerning this important aspect of human existence will be presented.

3 hrs

PHILOS 423  SYMBOLIC LOGIC
Advanced analysis of deductive procedures; sentential connectives, quantifiers, classes, and relations; the notion of formal system; introduction to axiomatics and metalogical proofs. No prerequisites.

3 hrs

PHILOS 424  ART, AESTHETICS AND SOCIETY
This course examines various moral and social issues concerning the arts and the aesthetics of our environment, bringing in case studies of particular artworks. It explores the relationships between aesthetic and moral value in the case of censorship, the effect of images on the public, and the aesthetics of the natural environment. It also looks at how public art is supposed to serve the public, and ethical dilemmas faced by art museums.

3 hrs

PHILOS 425  HISTORY OF AESTHETICS
An examination of the major thinkers in the history of aesthetics, such as Plato, Aristotle, Kant, Nietzsche, Tolstoy and Croce. The focus will be on how their ideas bear on topics which will interest anyone desiring to understand the origin, nature and value of the arts. Examples of these topics are the relationships among art, knowledge and morality; the natures of originality, creativity and genius; the importance of form, content and expression of emotions; and standards of taste and the claims of criticism. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

3 hrs

PHILOS 430  PLATO
Selected dialogues of Plato are studied with a view to understanding Plato's philosophy and its position in the world of Greece and antiquity. Plato's philosophy is also examined with reference to his place in the Western tradition and in modern philosophy. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

3 hrs

PHILOS 431  ARISTOTLE
Selected portions of Aristotle's works on logic, metaphysics, science, ethics, politics, and poetics are studied with a view to understanding Aristotle's philosophy and its position in the world of Greece and antiquity. Aristotle's philosophy is examined with reference to its place in the Western tradition and in modern philosophy. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

3 hrs

PHILOS 435 R  THE BRITISH TRADITION IN PHILOSOPHY
This course is a survey of major British philosophers. Among those who will be studied are Thomas Hobbes, John Locke, David Hume, J.S. Mill, E.H. Bradley, and Bertrand Russell. The influence of British philosophy on other philosophical movements will also be included. Prerequisite: PHILOS 210, PHILOS 215, PHILOS 222 or an equivalent.
PHILOS 436  **KANT**  
A study of selected writings of Immanuel Kant, with particular emphasis on the epistemological, metaphysical and ethical aspects of Kant's philosophy; an examination of Kant’s significance within contemporary thought. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent.

PHILOS 445  **20TH-CENTURY PHILOSOPHY**  
A study of the development of philosophy in the 20th-Century, treating such movements as Idealism, Realism, Logical Positivism, Existentialism, Phenomenology, Pragmatism, and Analytic Philosophy. Prerequisite: PHILOS 210 or PHILOS 215 or PHILOS 222.

PHILOS 448  **RECENT ETHICAL THEORIES**  
An analysis and investigation of modern and contemporary ethical theories. Among the theories considered are ethical relativism, the emotive theory, utilitarianism, neo-Kantianism, and situation ethics. Prerequisite: PHILOS 321.

PHILOS 450  **ETHICS AND GOVERNMENT**  
An examination of ethical issues related to government, with the primary focus on national and local governmental bodies in the United States. Ethics in the executive, legislative and judicial branches are examined. Ethical standards for elected officials and appointed public servants are reviewed. Attempts to "legislate morality" are considered. The course includes a historical review of ethics and government and an analysis of the legal implications of legislation regarding ethics in the executive branch. Prerequisite: PHILOS 210 or permission of the instructor. Offered: On demand.

PHILOS 480  **SELECTED TOPICS**  
Each time this course is offered a particular philosopher or particular area of philosophy will be the topic of discussion. The course may be repeated for credit when the topic varies. Prerequisite: PHILOS 210, PHILOS 222 or an equivalent, depending on the topic.

PHILOS 480 A  **SELECTED TOPICS**

PHILOS 480 B  **SELECTED TOPICS**

PHILOS 490  **SPECIAL TOPICS AND READINGS**  
Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies. Prerequisite: PHILOS 222, 310, 320, 321 or 423.

PHILOS 490 B  **SPECIAL TOPICS AND READINGS**  
Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies. Prerequisite: PHILOS 222, 310, 320, 321 or 423.

**PHYSICS**  
PHYSICS 102  **INTRODUCTION TO PHYSICS**  
Introduction to fundamental concepts and basic laws of physics with daily life examples. Simple problem solving techniques. This course will meet the area requirements for the natural sciences. Prerequisite(s): None.

PHYSICS 140  **HOW THINGS WORK**  
A course intended for liberal arts students focusing on the principles of operations, histories, and relationships of objects from our daily environment. The areas of investigation include mechanical and thermal objects, electromagnetism, light, special materials and nuclear energy. This course will meet the area requirement for natural sciences. Offered: Every Winter.

PHYSICS 140 L  **HOW THINGS WORK LABORATORY**  
Simple experiments based on everyday experiences are analyzed in terms of conceptual physics. The material includes elements of mechanics of a rigid body, elastic properties of matter, fluid dynamics, thermodynamics, electromagnetism, optics and modern physics. The laboratory supplements the PHYSICS 140 lecture and must be taken concurrently with the lecture. Offered: Every Winter. Restrictions: Concurrent with PHYSICS 140

PHYSICS 150  **INTRODUCTION TO ASTRONOMY**  
A survey of modern topics in astronomy covering cosmological origins, galaxy formation, stellar structure and generation of the chemical elements found in planetary systems. Exotic objects such as supernovae, white dwarves, black holes, neutron stars and quasars will be introduced as indicators of large-scale, energetic astronomical processes. This course will meet the area requirement for the natural sciences. Prerequisite(s): College Algebra or Equivalent. Offered: Fall Even Years.
PHYSICS 160  VISION AND IMAGING: FROM LIGHT TO ELECTRONS
This course is intended for non-Physics majors who wish to learn about recent development in the field of physics. Students will explore light and electrons and learn how they are used to visualize nature from microscopic to macroscopic scales. The underlying physics principles in various imaging techniques and the concept of optics will be explained. Intriguing images will be shown and interpreted, to demonstrate that physics is fascinating and has great impact on our lives. No specific mathematics is required for taking this course. This course will meet the area requirements for the natural sciences.

3 hrs

PHYSICS 210  GENERAL PHYSICS I
Fundamental principles of physics including mechanics, heat and energy, and applications of these principles to different interdisciplinary natural science. Prerequisite or corequisite: College mathematics including trigonometry and algebra or equivalent. Three lectures and one two hour laboratory period per week. Offered: Fall and Winter.

4 hrs

PHYSICS 220  GENERAL PHYSICS II
Fundamental principles of physics including sound, electricity, magnetism, optics, elementary modern physics, and applications of these principles to different interdisciplinary natural science. Prerequisite: PHYSICS 210 or equivalent or consent of instructor. Three lectures and one two hour laboratory period per week. Offered: Fall and Winter

4 hrs

PHYSICS 240  PHYSICS FOR SCIENCE AND ENGINEERING I
Introduction to mechanics, wave motion and sound and heat and thermodynamics. CoRequisite: Calculus I Offered: Fall and Winter

5 hrs

PHYSICS 250  PHYSICS FOR SCIENCE AND ENGINEERING II
Introduction to electricity and magnetism, light and optics and modern physics. Prerequisite: Physics for Science and Engineering I. Corequisite: Calculus II or consent of Instructor. Four hours lecture and two hours laboratory per week. Offered: Fall and Winter.

5 hrs

PHYSICS 260  INTRODUCTION TO STELLAR ASTRONOMY
An introduction to such topics as the properties of stars, their evolution, galaxies, nebulae, quasars and cosmology. Offered: Fall-Odd Years.

3 hrs

PHYSICS 265 L  ASTRONOMY LABORATORY
Experiments in planetary motion, apparent solar time, stellar spectra, stellar magnitudes, binary stars, telescopic observations of the sun, moon and planets. Prerequisite: PHYSICS 260 or concurrently and consent of instructor. Offered: On demand.

2 hrs

PHYSICS 270  INTRODUCTION TO SOLAR SYSTEM ASTRONOMY
A non-mathematical introduction to the astronomy of the solar system including the properties of the sun, planets and their satellites. Offered: On Demand.

3 hrs

PHYSICS 280  A SURVEY OF ASTRONOMY
A one semester non laboratory science course intended for non-science majors which will cover the early history of Greek astronomy, the advances of the Renaissance, the physics of astronomy, the structure of the universe both our local solar system and on a galactic scale, and current development in the dynamic field of astronomy. Offered: On Demand.

4 hrs

PHYSICS 301 A  BASIC SCIENCE PHYSICS
Selected topics from physics; their development and application to everyday problems. Discussion and demonstrations. Intended for teachers in the elementary schools. Offered: On Demand.

1 hr

PHYSICS 310  MECHANICS I
Advanced statics and dynamics of particles and rigid bodies including gravitation. Prerequisites: One year of physics and calculus or consent of instructor. Offered: Fall.

3 hrs

PHYSICS 311  MECHANICS II
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.

3 hrs

PHYSICS 350  MODERN PHYSICS WITH ENGINEERING APPLICATIONS
An introduction to quantum and relativistic effects with applications in solid state, atomic and nuclear physics and in engineering problems. Prerequisites: MATH 345 and PHYSICS 240 PHYSICS 250. Offered: Winter Semester.

3 hrs

PHYSICS 380  MODERN DEVELOPMENTS IN PHYSICS I

4 hrs

PHYSICS 381  MODERN DEVELOPMENTS IN PHYSICS II
4 hrs

PHYSICS 385 L  ELEMENTARY CIRCUITS LABORATORY
An introduction to analog and digital electronics. The topics covered include passive filters, operational amplifier applications, digital logic, and digital timing circuits. Prerequisites: Must be taking or have completed six hours of Physics courses numbered 300 or above. Offered: Winter (Even years)

3 hrs

PHYSICS 395 L  COMPUTER INTERFACING LABORATORY
An introduction to computer interfacing through the use of serial and parallel ports, and digital-to-analog and analog-to-digital converters. The course also introduces digital filtering techniques, data analysis techniques, and graphical presentation data. The programming techniques are taught using high level programming languages currently used in research and development labs. Prerequisite: PHYSICS 385L Offered: Fall Even Years.

3 hrs

PHYSICS 410  THERMAL PHYSICS
A study of the laws of thermodynamics and their applications, with an introduction to kinetic theory. Statistical methods are emphasized. Prerequisites: One year of physics and calculus. Offered: Fall Odd Years.

3 hrs

PHYSICS 413  COMPUTATIONAL PHYSICS
Introduction to scientific programming and numerical analysis with applications to physics. Prerequisites: Undergraduate mathematics through differential equations plus one year of physics or consent of instructor. Offered: Even Years.

3 hrs

PHYSICS 420  OPTICS
Geometrical optics, physical optics and introduction to selected topics in modern optics. Prerequisites: One year of physics and Calculus I and II. Offered: Fall Odd Years.

3 hrs

PHYSICS 425 LW  OPTICS LABORATORY
Fundamental experiments with geometrical and physical optics. Prerequisite: Must be taking or have completed PHYSICS 420 and successful completion of the WEPT (effective FS93). Offered: Winter Even Years.

3 hrs

PHYSICS 431  METHODS OF THEORETICAL PHYSICS II
A continuation of PHYSICS 430R stressing applications to Physical and engineering problems. Prerequisite(s) PHYSICS 430R Offered: Winter

3 hrs

PHYSICS 445 L  MODERN PHYSICS LABORATORIES
Classical experiments in modern physics including such topics as hydrogen spectra, Faraday effect, holographs, e/m of the electron, the photoelectric effect, the Zeeman effect and the Franck-Hertz experiment. Four hours of laboratory work per week. Must have completed WEPT. Corequisite: PHYSICS 350. Offered: Winter-Even Years.

3 hrs

PHYSICS 460  ELECTRICITY AND MAGNETISM I
Static electric fields in free space and material media; Kirchoff's laws and direct current circuits; static magnetic fields. Prerequisite: One year of physics and calculus. Offered: Fall.

3 hrs

PHYSICS 461  ELECTRICITY AND MAGNETISM II
Magnetostatics; alternating current circuits; Maxwell's equations and radiation; special relativity; topics in electromagnetism. Prerequisite: PHYSICS 460 or consent of instructor. Offered: Winter.

3 hrs

PHYSICS 472  INTRODUCTION TO QUANTUM MECHANICS
Introduction to the theory and applications of quantum mechanics with emphasis on the mathematical treatment of modern physics. Prerequisite: PHYSICS 350 or consent of instructor. Offered: Winter.

3 hrs

PHYSICS 475 L  NUCLEAR PHYSICS LABORATORIES
Experiments concerning the properties of alpha, beta and gamma radiation, their emission and interactions with matter. Must have completed WEPT. Four hours of laboratory work per week. Offered: Winter-Odd Years.

3 hrs

PHYSICS 480  ELECTRON AND SCANNING PROBE MICROSCOPY
The principles of electron optics, diffraction, and sample preparation, image interpretation and photographic processing are taught; student operation of the electron microscope and individual projects are emphasized. Must have completed WEPT. Prerequisite: Consent of instructor. Offered: Fall.
PHYSICS 481  ELECTRON MICROSCOPY II
Graduate student research applications of electron microscopy to special projects are emphasized. Prerequisite: PHYSICS 480. Offered: On Demand.

3 hrs

PHYSICS 482  X-RAY ANALYSIS: THEORY AND PRACTICE
The physics of x-rays, methods of their detection, crystallography, x-ray diffraction, x-ray spectrometry, and sample preparation. Emphasis on laboratory techniques and the use of x-ray analysis as an analytical tool. Two hours lecture and two hours laboratory per week. Prerequisites: Consent of the instructor and senior departmental standing. Offered: On Demand.

3 hrs

PHYSICS 490  SPECIAL PROBLEMS
The kind of problem and the amount of credit to be given by arrangement with the department. Prerequisite: Consent of the department. Offered: On Demand.

1-3 hrs

PHYSICAL SCIENCE

PHY-SCI 110  FOUNDATIONS OF PHYSICAL SCIENCES I
Fundamental principles and concepts of the various physical and mathematical sciences, integrated by the history and philosophy of science. Fall and winter semester.*

4 hrs

PHY-SCI 110 L  FOUNDATIONS OF PHYSICAL SCIENCES, LABORATORY I
General laboratory and discussion sessions on various topics in the physical and mathematical sciences.

1 hr

PHY-SCI 301 P  SCIENTIFIC APPROACHES TO THE PHYSICAL WORLDS
Applications of chemistry, earth science and astronomy in industry and to our daily environment. Particular emphasis is placed on the technological advancements made in these areas of natural science and on their relationship to our standard of living.

4 hrs

PHY-SCI 302 P  CONCEPTS OF CHEMISTRY, EARTH SCIENCES AND ASTRONOMY
Basic principles of chemistry, earth sciences and astronomy with special emphasis on the earth and its environment.

4 hrs

PHY-SCI 303 P  APPLICATIONS OF PHYSICAL SCIENCE
Laboratory exercise, field experiences, tutorial-type seminars and recitation in elementary chemistry, earth science and astronomy.

4 hrs

PHY-SCI 410  SELECTED TOPICS IN CONTEMPORARY SCIENCE

3 hrs

POLITICAL SCIENCE

POL-SCI 210  AMERICAN GOVERNMENT
American government and politics, with special reference to the U.S. Constitution. This course meets the state requirement for study of the U.S. and Missouri Constitutions. Prerequisite: None. Offered: Every semester.

3 hrs

POL-SCI 220  INTRODUCTION TO COMPARATIVE POLITICS
An analysis of the way political institutions, processes and policies vary from country to country. Emphasis on politics in Europe, with attention to other nations when making comparisons. Prerequisite: None.

3 hrs
POL-SCI 300  INTERDISCIPLINARY STUDIES/CLUSTER COURSE
Provides an overview of the interrelationships of the humanities and social sciences. Offered in conjunction with other departments.

3 hrs

POL-SCI 300 CS  CLUSTER COURSE: HISTORY OF RUSSIAN CULTURE

3 hrs

POL-SCI 301  WESTERN POLITICAL PHILOSOPHY
An examination of the major theories of politics from Plato to today.

3 hrs

POL-SCI 302  POLITICAL RESEARCH AND ANALYSIS
The Internet and CD-Rom have opened up many sources of political information, and the computer facilitates the running of political simulations. The computer also makes it possible for many to use and to understand basic statistical techniques for the first time. In this course we will explore these and other techniques of political research and analysis. Prerequisites: None.

3 hrs

POL-SCI 303  POLITICAL BEHAVIOR
This course will survey research on conventional and unconventional forms of mass political behavior. Topics to be discussed include campaign participation, voting behavior, public opinion, the media, and participation in protests and revolutions. This course will also cover the methodological approaches to the study of political behavior. Offered: Spring

3 hrs

POL-SCI 304  POLITICS OF THE DEVELOPING NATIONS
An analysis of the evolving political systems of the new nations in Africa, Asia and Latin America. Social, cultural and economic influences on political processes and policies are explored.

3 hrs

POL-SCI 305  SURVEY RESEARCH AND ANALYSIS
Students will learn the process of research design and how one designs and implements surveys. The students will also learn how one analyzes survey data. Prerequisite: None Offered: Annually

3 hrs

POL-SCI 306  INTERNATIONAL RELATIONS
An analysis of relations among nations, with emphasis on structures of international power, causes of war, and approaches to peace.

3 hrs

POL-SCI 307  THE UNITED NATIONS: POLITICS AND ECONOMICS
This interdisciplinary course covers many facets of the United Nations, acquainting students with its structure, its operations and its involvement in international events, past and present. It merges politics, economics issues and the history of the UN in an effort to understand more fully the UN's role in international diplomacy. Students in this course will have an opportunity to participate in various Model UN conferences during the year. Offered: Fall Semester

3 hrs

POL-SCI 308  POLITICS, PARTIES AND PRESSURE GROUPS
This course is an introduction to parties and interest groups, and their important role in the political process. We will examine the formation, organization, activities, and impact of political parties and interest groups in the US and in comparative perspective.

3 hrs

POL-SCI 309  PUBLIC OPINION AND VOTING BEHAVIOR
A study of the formation, distribution and expression of public opinion and partisanship in the American political system.

3 hrs

POL-SCI 310  PARLIAMENTARY SYSTEMS

3 hrs

POL-SCI 311  COMPARATIVE POLITICS: TECHNIQUES OF SOCIAL CONTROL
An analysis of techniques used by regimes to perpetuate themselves in office and the effects of these techniques upon constitutional continuity, ideology, and social and economic change.

3 hrs

POL-SCI 312  MASS MEDIA AND AMERICAN POLITICS
An examination of the role of mass media in American electoral and policy processes.

3 hrs

POL-SCI 313  POLITICS IN THE AMERICAN STATES
A study of the structures, functions, and politics of the institutions of American state governments and an assessment of their role in the federal system. This course is particularly interested in the extent to which political economy and political culture, broadly defined, influence public policy within the states. Prerequisite: None.

3 hrs
This course will provide an understanding of politics in urban America through a study of metropolitan Kansas City. It will discuss the relationships between local governments, their decision making process, city-county consolidation, structure of regional council of governments, forming political alliances and current political issues affecting the metropolitan area. The course will discuss the politics of issues like transportation, sports facilities, environment and economic competitiveness. Offered: Winter

3 hrs

This course explores terrorism and armed struggle from theoretical and historical perspectives, and analyzes a number of violent movements with nationalist, ideological, and religious motivations. Offered: As Needed

3 hrs

An examination of the radical changes in economics, the social order, institutions and ideologies since the French Revolution which have led to the rise of totalitarianism and unstable democratic political systems in the advanced industrial nations.

3 hrs

The field of political psychology is an interdisciplinary field that draws on both psychology and political science to address topics in the political world. This course will focus on a variety of topics including inter-group conflict, stereotyping and prejudice, political socialization, attitude formation and change, political communication, decision heuristics and biases, public opinion, and the future of political psychology.

3 hrs

This course will examine the role of campaigns in determining the outcome of both congressional and presidential elections and the way that electoral rules structure both campaign strategies and electoral outcomes. This course focuses on topics such as the role of the media, campaign advertising, campaign financing, public opinion, registration requirements, and the role of interest groups.

3 hrs

This course provides an analysis of the political behavior and roles of racial and ethnic groups in the American political system. Theoretical, empirical, and practical issues of race, racism, and race relations are examined (in the political context). Public policy, electoral behavior, and political institutions are also investigated with regards to the empowerment and political incorporation of communities of color.

3 hrs

Nationalism and ethnicity serve as a basis for group identification, political mobilization, terrorism, war, and genocide. This course provides students with theoretical frameworks for analyzing nationalism and ethnic strife, and explores case studies to test our assumptions and theories about nationalist violence. Offered: As needed

3 hrs

In this course, we will cover the major issues, institutions, and political actors involved with state and local government. The class will expose you to how American federalism impacts states, metropolitan regions, and cities. The politics of governance, agenda setting, and public budgeting are also examined. The main objective is to develop a good understanding of the literature (theoretically, empirically and practically) on state and local politics.

3 hrs

Understanding the contemporary debate over American foreign policy in terms of the premises and perspectives of several competing schools of thought.

3 hrs

This course explores the rise of Islamic, Christian, and Jewish fundamentalisms in the modern world and assesses their impact on states, societies, and cultures around the globe. It explores how faith can be used to organize and legitimate social activism, liberation movements, and political terrorism. Offered: As needed

3 hrs

In this course we will read significant thinkers who are pondering major changes occurring in politics and society because of technology and the internet. Some argue that the world is getting "flat" and think that the change will be beneficial, while others believe we need to make economic units smaller and more local. We will also explore the internet, blogs and web 2.0 and explore their effect on our lives and on politics.

3 hrs

Analysis of the writings of philosophers like Hobbes, Locke, Rousseau, Marx and Nietzsche who developed and analyzed the ideas associated with modern democracies.

3 hrs

A study of American political ideas, with emphasis on current problems and conflicts, and intellectual responses to social change.

3 hrs

A study of the American Social Security system, including its history, principles, and prospects for the future.
POL-SCI 344  JURISPRUDENCE
An examination of theories of law from the viewpoint of political science.

3 hrs

POL-SCI 345  THE POLITICS OF SEX AND GENDER
Just as there is a politics of class and race, so is there a politics of sex and gender. Though gender roles and sexual practices seem as though they are natural, post-modern theorists argue that they are social constructions that change over time, privilege some groups, and disadvantage others. In this course we will examine the debate between opposing viewpoints and discuss how and where political decisions are made in this area. Prerequisite: None.

3 hrs

POL-SCI 346  INTRODUCTION TO THE TRIAL PROCESS
This course examines the trial process. We examine both about the structure of the judicial system and the different elements of a trial. Students will also participate in a mock trial using the American Mock Trial Associations annual problem.

3 hrs

POL-SCI 347 P  CRIME AND CIVIL LIBERTIES
A study of civil liberties in American society, emphasizing their role in the criminal and legal process. Topics include issues related to the Fourth, Fifth, Sixth, Eighth and 14th amendments. Other topics to be covered will depend on class interest and current events. Part of PACE Block -- Justice and Society.

3 hrs

POL-SCI 348  CONSTITUTIONAL LAW: THE FEDERAL SYSTEM
A study of the president, congress and state governments from the perspective of the Constitution, emphasizing powers and limitations on the exercise of authority.

3 hrs

POL-SCI 349  CONSTITUTIONAL LAW: CIVIL LIBERTIES
A study of civil liberties in American society, emphasizing factors and forces that restrict or enlarge their scope, as understood through constitutional interpretation.

3 hrs

POL-SCI 353  CHINESE POLITICS
China's political system from earliest origins to the present. Close attention is given to the manner in which current political and economic institutions function. Comparisons are made with other communist and Asian political systems.

3 hrs

POL-SCI 354  POLITICS IN RUSSIA
A study of domestic and international politics in Russia, emphasizing the post-Soviet period.

3 hrs

POL-SCI 355  POLITICS IN EASTERN AND CENTRAL EUROPE
An analysis of the internal politics and foreign policies of the Czech Republic, Slovakia, Hungary, Poland, and selected other countries in East-Central Europe, emphasizing the transition to post-Communist rule and new and enduring patterns of political culture.

3 hrs

POL-SCI 357  EUROPEAN POLITICS
An examination of government and politics in the established democracies of Western Europe, and of political developments in the former Communist states of Central and Eastern Europe. Offered: Winter.

3 hrs

POL-SCI 358  GLOBAL POLITICAL AND SOCIAL ISSUES
This course is designed to afford the student with an overview of important global and regional challenges associated with the emerging 21st century. Hence, there are three objectives: (1) gain an understanding of the facts and complexities of the selected issues within the framework of globalisation; (2) describe and explain difficulties in formulating political/policy consensus aimed at resolving these issues; (3) considering both the factual complexities and difficulties in formulating policy; identify future trends related to major global challenges.

4 hrs

POL-SCI 369  POLITICS OF THE MIDDLE EAST
This course explores the formation of the modern Middle East; the role of Islam in shaping its political cultures; the post-colonial transformations that shaped its current political systems; the economic and democratic reforms that challenge existing regimes; and the pivotal states and conflicts that stir regional politics. Offered: As needed

3 hrs

POL-SCI 370  LABOR LAW
In this course, participants will examine the role of government in the regulation of labor-management relations in the United States. While the focus of the course will be on federal laws regulating private sector labor relations, parallel issues addressed in the Railway Labor Act and state public sector labor relations law will also be covered. Specific topics include the legal framework for the organization of workers, definition of prohibited or unfair labor practices of employers and unions, legal regulation of the collective bargaining process, regulation of the use of economic weapons in labor disputes, enforcement of collective bargaining agreements and the regulation of internal trade union activities. Prerequisites: None.

3 hrs

POL-SCI 380  POLITICAL SCIENCE AND POLITICS
Offered as a special course in the individual faculty member's area of research specialization. The course may be repeated for credit when the topic varies. The topic and instructor will be announced in advance. Prerequisite: Consent of the instructor or advanced standing.
POL-SCI 380 A  POLITICAL SCIENCE AND POLITICS
1-6 hrs

POL-SCI 380 B  POLITICAL SCIENCE AND POLITICS
1-6 hrs

POL-SCI 380 C  POLITICAL SCIENCE AND POLITICS
1-6 hrs

POL-SCI 380 D  POLITICAL SCIENCE AND POLITICS
1-6 hrs

POL-SCI 380 E  POLITICAL SCIENCE AND POLITICS
1-6 hrs

POL-SCI 380 X  POLITICAL SCIENCE AND POLITICS
1-6 hrs

POL-SCI 381  MOCK TRIAL
A study of the trial process in the U.S. judicial system focusing on the structure and rules of trials, including the role of attorneys. Combination of student performance with in-class lecture and discussion. Restrictions: Consent of instructor
1 hr

POL-SCI 403  POLITICAL IDEOLOGY
A critical examination of contemporary political ideologies including democratic and authoritarian theories.
3 hrs

POL-SCI 405  AMERICAN CONSTITUTIONAL THOUGHT
An analysis of the development of American constitutional doctrine, with emphasis on the historical and intellectual context within which the Supreme Court changes its attitudes toward economic and political issues.
3 hrs

POL-SCI 406  PRESIDENTIAL POLITICS
This course will examine the American presidency as an institution, and will analyze its role in the American political system. It will also consider the administrations of the various presidents.
3 hrs

POL-SCI 406 P  POLITICAL LEADERSHIP
This weekend course will examine theories, institutions and styles of political leadership; analyze recruitment and selection methods; and study popular perceptions of such leaders. Using film, fiction and materials from political science, this course will culminate in a look at U.S. presidents and the presidency in the 20th century. Prerequisites: Social Science PACE 102P and 103P, or POL-SCI 210 or equivalent; concurrent enrollment in POL-SCI 409P for those in the PACE Program or in the B.L.A. degree program. For other students, the consent of the instructor is required. Students who have credit for POL-SCI 406A or its equivalent may not enroll in this course.
4 hrs

POL-SCI 407  CONGRESSIONAL POLITICS
A study of legislative institutions, procedures and behavior (with emphasis on the U.S. Congress) in the context of theories of political representation.
3 hrs

POL-SCI 407 P  POLITICS OF REPRESENTATION
A study of legislative institutions, procedures and behaviors in the U.S. Congress that raises practical as well as theoretical questions of political representation in modern society. This course will be presented by video cassette and will be integrated with POL-SCI 406P and POL-SCI 409P. Prerequisites: Social Science PACE 102P and 103P or POL-SCI 210 or equivalent; concurrent enrollment in POL-SCI 406P and POL-SCI 409P.
4 hrs

POL-SCI 408  JUDICIAL POLITICS
An examination of the judiciary in the American political process, emphasizing the role of judges, lawyers and the Supreme Court.
3 hrs

POL-SCI 409  BUREAUCRATIC POLITICS
A study of political processes that create and operate within bureaucracies in the American pluralist system. Close attention is given to the tension between representation and rationality when making decisions.
3 hrs
POL-SCI 424  URBAN POLITICS AND COMMUNITY POWER STRUCTURES
This course surveys and analyzes the literature covering urban politics. Students will gain both a theoretical understanding of and empirical grounding in the politics of urban America. An array of important political, social and economic problems that impact urban politics will be examined.

3 hrs

POL-SCI 425  COMPARATIVE POLITICS
Aspects of politics in various countries as viewed through the language and thought processes of contemporary approaches to political science.

3 hrs

POL-SCI 428  POLITICAL CULTURE AND POLITICAL BEHAVIOR
This course will examine the concept of political culture and its use in the empirical analyses of political behavior in advanced political systems. Emphasis will be placed on the U.S system with comparisons drawn from Western Europe. The student will be expected to complete an empirically documented research paper.

3 hrs

POL-SCI 429  COURTS AND PUBLIC POLICY
An analysis of how courts influence policy in selected political arenas.

3 hrs

POL-SCI 432  NATIONAL SECURITY POLICY
An examination of national security policy as an organizational and intellectual response to changes in technology and international conflict.

3 hrs

POL-SCI 435  POLITICS OF THE ENVIRONMENT
A survey of the political aspects of environmental issues. The course poses the problems of environmental damage and examines actual and proposed policies aimed at addressing them. Also offered through the PACE program. Prerequisite: None.

3 hrs

POL-SCI 435 P  POLITICS OF THE ENVIRONMENT
A survey of the political aspects of environmental issues. The course poses the problems of environmental damage and examines actual and proposed policies aimed at addressing them. The course content is the same as POL-SCI 435 title except additional reading and writing will be required commensurate with a 4 credit hour course.

4 hrs

POL-SCI 438  URBAN POLITICS
The study of local politics and government in metropolitan areas with special attention to political party and interest group activity; community leadership, influences and "power"; and citizen participation and political behavior.

3 hrs

POL-SCI 440  CONTEMPORARY POLITICAL THOUGHT
Political philosophy from Nietzsche to today.

3 hrs

POL-SCI 441  POLITICAL FREEDOM
Selected writings by political thinkers dealing with the establishment of freedom and justice in the state. Examines the challenges to political freedom under various regimes.

3 hrs

POL-SCI 442  AMERICAN POLITICAL THOUGHT
This course will focus on intellectual reactions to the major periods in American history (the movement for independence, the writing of the Constitution, the Jacksonian period, the Civil War debate, the growth of big business, the rise of the positive state and contemporary America). Contemporary theorists will be included along with Adams, Jefferson, Madison, Hamilton, Marshall, etc.

3 hrs

POL-SCI 450 WI  ETHICS AND GOVERNMENT
An examination of ethical issues related to government with the primary focus on national and local governmental bodies in the United States. Ethics in the executive, legislative and judicial branches are examined. Ethical standards for elected officials and appointed public servants are reviewed. Attempts to "legislate morality" are considered. The course includes a historical review of ethics and government and an analysis of the legal implication of legislation regarding ethics in the executive branch. Prerequisite: Successful completion of the WEPT.

3 hrs

POL-SCI 451  INTERNATIONAL POLITICS IN EUROPE
An examination of developments in international politics in Europe since the end of the Cold War. Issues are discussed in the context of relevant theories of international relations. Offered: every two years Restrictions: May not be taken by those who took "Europe After the Cold War"

3 hrs

POL-SCI 480  GOVERNMENT AND POLITICS
This variable credit course will explore different contemporary issues and problems related to government and politics. Credit may apply to the major but will not satisfy any of the four subfields distribution requirements.

1-6 hrs
POL-SCI 490  SENIOR SEMINAR
A review, analysis and integration of the literatures of the several sub-fields of the discipline. For senior political science majors only. Prerequisite: Senior standing. Offered: Each semester.

3 hrs

POL-SCI 491  INTERNSHIP
With the written consent of the department chairman, students may participate in structured internship programs approved by the department for a maximum of six hours.

1-6 hrs

POL-SCI 492 WI  SENIOR SEMINAR (CAPSTONE)
This intensive survey of political science provides graduating seniors an opportunity for integration and review of their study of political values, behavior, and institutions. Satisfies both writing intensive and capstone requirements. Prerequisites: Senior standing in political science and completion of the WEPT. Offered: Winter.

3 hrs

POL-SCI 497  POLITICAL SCIENCE TUTORIAL
Senior political science majors may apply to do independent study under a selected professor. Must have written consent of the professor prior to registration. Only one tutorial will count toward the major.

3 hrs

POL-SCI 498  HONORS TUTORIAL
Senior political science majors with a grade point average of 3.4 or above in political science may apply to do independent study under a selected professor. Must have written consent of professor prior to registration. Only one tutorial will count toward the major.

1-3 hrs

POL-SCI H220  INTRODUCTION TO COMPARATIVE POLITICS
An analysis of the way political institutions, processes and policies vary from country to country. Emphasis on politics in Europe, with attention to other nations when making comparisons. Prerequisite: None.

3 hrs

PSYCHOLOGY

PSYCH 210  GENERAL PSYCHOLOGY
Psychological principles and methods. Prerequisite to all other courses in psychology except with consent of the instructor. Each semester.

3 hrs

PSYCH 211 P  APPLIED PSYCHOLOGY
As a science psychology seeks to understand the mind. This course discusses the major applications of this understanding to human problems and behavior. Applications of psychology to law, business and industry, mental health, medicine, education and the general community will be discussed.

3 hrs

PSYCH 215  MEDITATION, SELF-HYPNOSIS, AND BIOFEEDBACK
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.

3 hrs

PSYCH 270 P  COMPULSIVE GAMBLING AND OTHER ADDICTIONS
Course will focus on compulsive gambling and the psychology of addiction. Alcohol, drug, food and sex addiction will also be explored. After attending this course, the student will be able to understand the problem gambling continuum, the phases of the problem gambler and how this addiction affects the family.

3 hrs

PSYCH 300  INDUSTRIAL PSYCHOLOGY
General course dealing with the psychology of the work environment. Included will be work rating techniques, job descriptions, selection and placement of workers, prediction of job success, supervisory and management training programs, individual interacting with others, human relations, job morale, individual satisfaction, and the structure of organizations. Prerequisite: PSYCH 210.

3 hrs

PSYCH 300 C5  INTERDISCIPLINARY STUDIES: SPECIAL TOPICS
Faculty from at least two different departments (one of which must be a department in the Division of Humanities including History) may determine the topic and syllabus, subject to the approval of the director of Integrated Studies and the program's advisory committee in addition to the approval of the departments involved. This special topics course will satisfy the interdisciplinary course requirement for the B.A. Prerequisite: PSYCH 210.

3 hrs

PSYCH 300 CT  CLUSTER COURSE: HEALING AND CULTURAL DIVERSITY

3 hrs

PSYCH 302 WI  EXPERIMENTAL PSYCHOLOGY
The rationale and methodology of experimentation in psychology, emphasizing interpretation of data and the design of experiments. Three hours lecture and two hours laboratory a week. Prerequisites: PSYCH 210; PSYCH 316 must be completed prior to or concurrently with this course. Offered: Each semester.

4 hrs
PSYCH 303 WI  PSYCHOLOGICAL WRITING
Psychological Writing satisfies the Writing-Intensive (WI) College of Arts and Sciences requirement. Writing skills in the psychological sciences will be emphasized. Students will receive instruction
and intensive practice in writing the several components of experimental psychological reports. Prerequisite: Successful completion of the WEPT exam.

3 hrs

PSYCH 304 LEARNING
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: PSYCH 210, PSYCH 302 and PSYCH 316 or consent of instructor.

4 hrs

PSYCH 305 PSYCHOLOGY OF WOMEN
This course will be devoted to a critical examination of studies of the psychology and behavior of women. Special topics for consideration will be (1) the sex role development of females; (2)
female biology and endocrinology; (3) learning and cognitive functioning of the female; (4) female achievement in educational and occupational settings; (5) female sexual behavior; (6) the
psychotherapeutic treatment of women. Prerequisite: PSYCH 210.

3 hrs

PSYCH 308 SENSATION AND PERCEPTION
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): PSYCH 210.

3 hrs

PSYCH 310 THEORIES OF AGGRESSION
The two major theoretical approaches relative to explaining aggression, ethological and psychological, will be presented and contrasted. The adequacy of these approaches in explaining assaultive
and criminal forms of human behavior will be examined. Specific topics may include child and spouse abuse, murder, delinquency, riots, territoriality, "catharsis" in sports, television and violence
and others. Prerequisite: PSYCH 210.

3 hrs

PSYCH 311 APPLIED PSYCHOLOGY
This course discusses the major applications of scientific psychology to human problems and behavior. Applications of psychology to law, business and industry, mental health, medicine, education
and the general community will be discussed. May not be taken for graduate credit. Prerequisite(s): PSYCH 210. Semester Offered: on demand.

3 hrs

PSYCH 312 SOCIAL PSYCHOLOGY
Lecture course in theories and methods of social psychology. Topics include attitudes, attitude change, leadership, conformity, person perception, cooperation and competition, racial and social
class differences. May not be taken for graduate credit. Prerequisite(s): PSYCH 210. Offered: Each semester.

3 hrs

PSYCH 316 QUANTITATIVE METHODS IN PSYCHOLOGY
Correlation analysis, testing of hypotheses, and other techniques for evaluation of experimental designs and quantitative data. May not be taken for graduate credit. Prerequisite(s): PSYCH 210, MATH 116 or MATH 110. Offered: Each semester.

3 hrs

PSYCH 320 ETHNIC AND MINORITY PERSPECTIVES IN PSYCHOLOGY
Critical examination of the theory, methods and content of psychology relevant to the interests and needs of ethnic minorities and the contributions of ethnic groups and other minorities to the
interests and needs of psychology. Prerequisite: PSYCH 210. On demand.

3 hrs

PSYCH 322 CHILD PSYCHOLOGY
The relations between child's biological and social conditions of personality; problems concerning the familial role and the guidance of the child's social adaptation. May not be taken for graduate
credit. Prerequisite(s): PSYCH 210. Offered: Each semester.

3 hrs

PSYCH 322 P CHILD PSYCHOLOGY
The relations between child's biological and social conditions of personality; problems concerning the familial role and the guidance of the child's social adaptation. May not be taken for graduate
credit. Prerequisite(s): PSYCH 210. Offered: Each semester.

3 hrs

PSYCH 323 THEORY AND METHODS OF PERSONALITY
The development, organization, dynamics and determinants of personality. May not be taken for graduate credit. Prerequisite: PSYCH 210. Offered: Each semester.

3 hrs

PSYCH 326 ALTERNATE SEXUAL LIFESTYLES & CONTEMPORARY ISSUES HUMAN SEXUALITY
One objective of this course will be to examine the psychological determinants that lead to the development of nontraditional relationships and the psychological effects on the participants. A
second objective of this course will be to examine contemporary issues bearing on the sexual practices of wide segments of the community. Such factors as pornography and the roles played by
the law, church and school as they pertain to the development of attitudes and on alternate sexual lifestyles. Prerequisite: PSYCH 210.

3 hrs

PSYCH 328 PSYCHOLOGY OF HUMAN SEXUAL BEHAVIOR
The focus of this course will be on the psychological factors surrounding human sexuality. This will include discussions about some myths and fallacies surrounding sexual education, correction of sexual misinformation, and relationship of attitudes to various sexual mores and practices. Although personal counseling is not included in the course, students will be informed of community resources available for consultation. An analysis of local community standards used to evaluate sexual behavior will include input from professional representatives of the community such as lawyers, physicians and the clergy. Prerequisite: PSYCH 210.

3 hrs

PSYCH 330   PSYCHOLOGY OF LANGUAGE
An introduction to the study of psycholinguistics. Topics will include psychological studies of language, animal communication, child language and psychotic language behavior. Prerequisite: PSYCH 210.

3 hrs

PSYCH 331   AN INTRODUCTION TO HEALTH PSYCHOLOGY
The purpose of this course will be to survey the many applications of psychology to the encouragement of health and wellness, to the prevention of disease, and to the healing process. Prerequisite: PSYCH 210.

3 hrs

PSYCH 400   PRINCIPLES OF PSYCHOLOGICAL TESTING
The theory of psychological testing and measurement. Prerequisite: PSYCH 316. Winter.

3 hrs

PSYCH 403   ENVIRONMENTAL PSYCHOLOGY
Analysis of environmental influences on behavior of individuals and their influence, in turn, on the environment. Topics will include processes relating to the environment (such as the perception, evaluation and adaptation to the environment) and social processes relating to the environment (such as privacy, territoriality and crowding). Prerequisite: PSYCH 210.

3 hrs

PSYCH 405   MOTIVATION
The fundamental conditions and principles of both human and animal motivation. Included will be discussion of such topics as classical drive theory, psychoanalytic approaches to motivation, achievement motivation, and recent developments in theories of motivation. May not be taken for graduate credit. Prerequisites: PSYCH 316. Offered: On demand.

3 hrs

PSYCH 406 P   INTRODUCTION TO DEVELOPMENTAL DISABILITIES
This course builds a knowledge base in developmental disabilities requisite to other studies in this field. Students will meet individuals with disabilities, encounter “people first” values, and examine their own attitudes about people with disabilities from a multicultural perspective. The course presents principles of human development, causes of disability, and the effects of disability on individuals and families over the life span. Topics include the health, education and social services systems serving people with disabilities with emphasis on severe disabilities and critical junctures in the life-span including childhood, school-age, transition to adult-living, employment, and aging.

4 hrs

PSYCH 407   COGNITIVE PSYCHOLOGY
This course will review the historical foundations and current state of knowledge regarding human information processing and the mental processes that underlie human behavior. The topics covered will range from foundational cognitive processes such as attention and memory, to more complex, higher-level processes such as problem-solving and decision-making. Prerequisite: PSYCH 210; PSYCH 302WI Offered: Winter Semester

3 hrs

PSYCH 410   ABNORMAL LANGUAGE
Abnormal language behaviors as clinical entities will be examined. Students will have an opportunity to study the language and thought of the schizophrenic, of abused and neglected children and autistic children, of individuals with brain damage, and of individuals with fluency disorders. Gender language and the misuse of language in the legal setting will also be presented. Discussion of listener’s attitudes toward normal, but non-standard language, such as black dialect, will be given attention.

3 hrs

PSYCH 415   HISTORY AND SYSTEMS OF PSYCHOLOGY
Traces the historical origins of psychology beginning with its philosophical origins and discusses problems, areas and methods which resulted in major attempts to systematize psychological theory. This is the department’s capstone course. Required of psychology majors. Prerequisites: Grade of C or better in PSYCH 302WI Restrictions: 415 should be taken only by Psychology majors in their last semester

3 hrs

PSYCH 418   BIOPSYCHOLOGY I
An introduction to the neural basis of human behavior. Covers research on the basic structure and function of the human brain, with topics including movement, perception, emotion, cognition, and psychological disorders. Prerequisite: PSYCH 302WI

3 hrs

PSYCH 419   BIOPSYCHOLOGY II
This course assumes that the student has mastered the basics of biopsychology, and deals with this topic in greater depth and scope than PSYCH418. It will begin with a brief review and update of basic materials of biopsychology, will quickly go on to a more advanced treatment of the topic, taking up where PSYCH 418 left off. There will, in particular, be an emphasis on human biopsychology. This course is primarily intended for the advanced undergraduate. Prerequisite: PSYCH 418 or equivalent.

3 hrs

PSYCH 428   ADVANCED APPLIED CHILD DEVELOPMENT
Course builds on the foundation laid in PSYCH 322, Child Development. Focus is on contemporary developmental issues, particularly those with applied and social policy implications for promoting positive healthy development of children and adolescents. This is an advanced course involving seminar-like discussions and written assignments. Further, it is an academic service learning course and requires students to spend a minimum of 25 hours actively engaged in community work serving children or youth. Prerequisites: PSYCH 322 Child Psychology, earned grade of "B" or greater, or written permission of instructor.

3 hrs
PSYCH 430  INTRODUCTION TO COMMUNITY PSYCHOLOGY AND COMMUNITY MENTAL HEALTH
Overview of the field of community psychology, a field which seeks to understand how social, political and economic factors contribute to social problems and seeks to improve community well-being through social innovation and action research. The history, philosophical underpinnings, concepts, methods and research in community mental health and community psychology are reviewed. The course provides students with both a conceptual and experiential understanding of these fields. Individual and group projects are required. Prerequisite: 6 hours of psychology. Offered: Fall semesters.

3 hrs

PSYCH 433  ABNORMAL PSYCHOLOGY
Interpretation of the major tensions and conflicts in normal personality and of unrealistic modes of reaction to these tensions and conflicts, as revealed in mental illness. May not be taken for graduate credit. Prerequisite(S): PSYCH 322 or PSYCH 323. Offered: Each semester.

3 hrs

PSYCH 438  PSYCHOLOGY AND BUSINESS AND INDUSTRY: MOTIVATIONAL FACTORS
Investigation of psychological principles in business and industry: personnel selection, attitudes, motivation, supervision, communication and others influencing work efficiency. This course involves student projects within the business community. Students will be acquainted with the techniques of measurement of quality of motivation, behavioral laws due to the differences in motivation, how to assess and change the practices utilized within a business regarding their motivational effects upon employees. One goal will be the production of a motivational analysis profile for use in business and industry within the community. Prerequisite: Nine hours of psychology.

3 hrs

PSYCH 440  THE PSYCHOLOGY OF AGING
This course will identify major themes and issues concerning psychology related to aging. The major influence on the behavior, cognitive functioning and emotions of older adults will be examined. Consideration will be given to individual, group and environmental influences. Possible interventions will be identified. Cross-sectional and longitudinal research will be reviewed in order to examine the changes in individuals due to aging and the differences between cohort groups. Three major areas of information will be the focus: Concepts, theory and methods in psychology of aging: Biological and social influences on behavior, and behavioral processes.

3 hrs

PSYCH 441  ADULT DEVELOPMENT AND AGING
This course will identify major themes and issues of mid-life and older adults. It will examine major developmental theories of adult development and aging. A contextual approach is stressed, including research and theory on the impact of cohort, gender, race/ethnicity, socioeconomic status, and culture on development. Application to real life is integrated throughout the course. Prerequisites: None. Offered Winter semester.

3 hrs

PSYCH 450  SPECIAL TOPICS
These are courses which are offered as the result of student demand, specialized faculty interests or the availability of a visiting expert in a field related to psychology. Students may enroll in one section of 450 per semester but not limited in the total number they may take. Prerequisite: Consent of instructor. On demand.

1-3 hrs

PSYCH 450 A  SPECIAL TOPICS

1-3 hrs

PSYCH 450 G  SPECIAL TOPICS IN PSYCHOLOGY

1-3 hrs

PSYCH 453  FAMILY LIFE CYCLE: DEVELOPMENTAL APPROACH UNDERSTANDING FAMILY DYNAMIC
The primary purpose of this course is to enhance the student's understanding of the dynamics of healthy families. After receiving a historical overview of the development of families and the cultural roots and traditions behind different family structures, child-rearing values and other factors, the students will be given a framework to understand how healthy families establish a dynamic balance between individual and group needs, and between needs to establish structure and to be flexible in the face of change. A second framework will also be presented to provide students with an understanding of how families use their internal resources to cope with life stressors. Given these basic cultural, interactional, and coping frameworks as foundation for understanding, students will explore how families change as they move through time from formation as a couple, through early child-rearing, adolescence mid-life, and post retirement. Implications for human service professionals will be presented.

4 hrs

PSYCH 453 P  FAMILY LIFE CYCLE: DEVELOPMENTAL APPROACH UNDERSTANDING FAMILY DYNAMIC
The primary purpose of this course is to enhance the student's understanding of the dynamics of healthy families. After receiving a historical overview of the development of families and the cultural roots and traditions behind different family structures, child-rearing values and other factors, the students will be given a framework to understand how healthy families establish a dynamic balance between individual and group needs, and between needs to establish structure and to be flexible in the face of change. A second framework will also be presented to provide students with an understanding of how families use their internal resources to cope with life stressors. Given these basic cultural, interactional, and coping frameworks as foundation for understanding, students will explore how families change as they move through time from formation as a couple, through early child-rearing, adolescence mid-life, and post retirement. Implications for human service professionals will be presented.

4 hrs

PSYCH 458  BEHAVIOR MODIFICATION
A survey of behavior modification procedures used to change individual behaviors in variety of settings. The course will entail a critical examination of the behavior modification literature and will include training in the application of the principles to community problems. Prerequisite: Either PSYCH 302 or PSYCH 304.

3 hrs

PSYCH 460  FIELD PRACTICUM IN BEHAVIOR MODIFICATION
Practice in the application of behavior modification principles in community agencies. Students wishing to enroll in this course should apply to the director of the behavior modification program one semester in advance of anticipated enrollment. Prerequisites: PSYCH 302 or PSYCH 304 and PSYCH 458. On demand.

3 hrs
PSYCH 461 A  FIELD PRACTICUM
Provides supervised experience working in community agencies/organizations which address various human and social problems. Students receive training in community service oriented skills and approaches; e.g., advocacy, community organizing, program assessment, development and evaluation, outreach, and applied research. Ten hours per week at practicum site and class attendance are required. Prerequisite: Consent of instructor. Offered: Fall and winter.

4 hrs

PSYCH 490  DIRECTED INDIVIDUAL RESEARCH
Student will work on an individual research project under the supervision of a staff member. Consent of staff member is required prior to registration in this course. A maximum of three hours may be applied toward the major in psychology and a maximum of twelve toward the bachelor's degree. On demand.

1-6 hrs

PSYCH 490 P  PERCEPTIONS & IMAGES OF DISABILITIES IN LITERATURE AND FILM
This course combines classroom discussion of selected films and literature and independent study. Students will study films and selections from literature to develop an understanding and awareness of the social, economic and political aspects of disability as conveyed through popular culture. Students will also apply research, observation and writing skills to gain awareness and insights regarding disabilities, through working on an individual or team project. The project will further the understanding of disabilities and how various social, psychological and environmental conditions may affect people with disabilities and their families.

4 hrs

RELIGIOUS STUDIES

RELIG-ST 100  INTRODUCTION TO COMPARATIVE RELIGION
An introduction to the major religious traditions of the world and small group or tribal religions. Emphasis on the comparative study of selected myths, rituals, types of religious specialists, and types of religious communities.

3 hrs

RELIG-ST 400  SPECIAL TOPICS IN RELIGIOUS STUDIES
Special topics in religious studies which are not offered regularly. The focus of the course varies by semester and instructor.

1-3 hrs

RELIG-ST 400 A  SPECIAL TOPICS IN RELIGIOUS STUDIES

RELIG-ST 400 B  SPECIAL TOPICS IN RELIGIOUS STUDIES

RELIG-ST 400 C  SPECIAL TOPICS IN RELIGIOUS STUDIES

RELIG-ST 400 D  SPECIAL TOPICS IN RELIGIOUS STUDIES

RELIG-ST 403  VISIONS, DREAMS AND PROPHESEIES AS RELIGIOUS PHENOMENA
This course explores the ways visions, dreams, and prophesies have acquired religious significance in Western and non-Western contexts from the ancient period to the present.

3 hrs

RELIG-ST 404  GENDER AND RELIGION
Cross-cultural and comparative study of how religious groups create and transmit gender roles and expectations.

3 hrs

RELIG-ST 467  MYTH AND RITUAL
"Myth" and "ritual" have long been fundamental categories in the study of religion. This course will briefly survey some of the major theories and approaches to the study of myth and ritual from the Enlightenment to the present. The course will not only trace the shifting meanings of "myth" and "ritual", but will critically evaluate the utility of diverse approaches to the study of religious phenomena designated by these terms. Reading will include theoretical works, as well as selected case studies.

3 hrs

RELIG-ST 492  COLTS, SECTS AND NEW RELIGIOUS MOVEMENTS
In this course students will experience: (a) a variety of methods for analyzing and understanding new religious movements in society; sociological, historical and textual; (b) an introduction to the broad spectrum of religious beliefs which exist (and flourish) outside the cultural mainstream; and (c) an introduction to some of the means by which dominant religious and secular culture has confronted the presence of NRMs—e.g., deprogramming, exit counseling, and theologically oriented countermovement. Note: This course will be offered with RELIG-ST 5592; requirements for undergraduates will be less than for graduate students in terms of the length and sophistication of the research paper. Offered: On demand.

3 hrs

RELIG-ST 493  SEX & RELIGION: THE EROTIC & THE ANTI-EROTIC IN COMPARATIVE PERSP
This course is designed to highlight issues related to the various ways in which religions of the world have integrated, embraced, or repressed one of the most basic human experiences sexual expression. NOTE: This course will be offered with RELIG-ST 5593; requirements for undergraduates will be less than for graduate students in terms of length and sophistication of the research paper. Offered: On demand

3 hrs
As a biological “fact,” death would appear to be a human universal. Yet, human beings have imagined—and, thus experienced—the meaning of death in many diverse ways in different cultures and over time. This course explores the conceptualization and representation of death and dying, as well as the ritual activities surrounding death, found in selected religious communities. The goal is to gain insight into how people have sought to (re)create a world of meaning in the face of death and to gain a critical perspective on our own contemporary situation.

3 hrs

RELI-G-ST 495 RS  
TIME AND SPACE IN THE HISTORY OF RELIGIONS
Time and space are essential components of the lived worlds of human beings, yet the cultural and historical constructions of these are remarkably diverse and, moreover, are subject to change. This course is a cross-cultural, interdisciplinary, and comparative exploration of the constructions and experiences of time and space found in selected religious communities and historical periods. In addition, it investigates the pivotal role the categories of “sacred and profane time and space” have played in theorizing religion and in the study of religious myths and rituals in the modern period.

3 hrs

RELI-G-ST 496 RS  
THE BODY IN THE HISTORY OF RELIGIONS
The human body is the site of extensive imaginal and ritual activities in all religious traditions. This course explores some of the diverse ways religious communities have imagined and experienced the human body, as well as how the body had been manipulated and worked on in an effort to transform the human situation in the world.

3 hrs

RELI-G-ST 497 RS  
SPECIAL TOPICS AND READINGS
Intensive reading and/or research in an area selected by the student in consultation with the instructor. By permission only. May be repeated for credit when the topic varies. Permission of Faculty Member. Offered: On demand.

1-6 hrs

SOCIAL SCIENCE

SOC-SCI 210  
FOUNDATIONS OF SOCIAL SCIENCE I
An application of salient principles, facts and methods of social sciences to study of origins and nature of social institutions; problems of emotional adjustment and vocational choice; analysis of contemporary social, legal and economic trends affecting values, conception of freedom and of social power, and political organization. Every semester. Note: Continued in SOC-SCI 220.

3 hrs

SOC-SCI 210 P  
FOUNDATIONS OF SOCIAL SCIENCE
An application of salient principles, facts and methods of social sciences to study of origins and nature of social institutions; problems of emotional adjustment and vocational choice; analysis of contemporary social, legal and economic trends affecting values, conception of freedom and of social power, and political organization.

3 hrs

SOC-SCI 302 P  
POWER AND AUTHORITY
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: SOC-SCI 102 and SOC-SCI 103 or equivalent; concurrent enrollment in SOC-SCI 303P.

4 hrs

SOC-SCI 305 P  
ECONOMIC PRINCIPLES AND APPLICATIONS OF ACCOUNTING
In this one-hour course, students will use computers to apply accounting principles and to analyze annual reports of corporations. The course will be taught during one hour of a four-hour weekend course, with ACCTNG 201 being taught during the other three hours. It should be taken concurrently with ACCTNG 201 and with the Independent Study course, SOC-SCI 403P, Business Administration Applications. On a two-year rotation.

1 hr

SOC-SCI 355 P  
THE ENVIRONMENTAL MOVEMENT: ROOTS AND ACTIONS
A multi-disciplinary course synergizing case studies from history, political science, environmental management, and urban planning to develop a deep understanding of current environmental issues. We will probe such issues as the Concept of Nature and Environmental aesthetics Agriculture and the Environment, Energy and the Environment, Developing the “Built Environment”, Environmental Costs of Industrialism, the Birth of the Environmental Movement, Environmental Politics, Environmental Justice and many other topics.

4 hrs

SOC-SCI 359 P  
TECHNOLOGY POLICIES IN HOSPITALITY
This course will examine policies and practices of technology in hospitality and the impact of technology on decision making in the industry. Special attention will be given to the relationship between technology and organizational resources, examining the future development of policies and practices. Prerequisites: None. Offered: Any Semester.

4 hrs

SOC-SCI 364 PW  
CONTEMPORARY INDUSTRIAL SOCIETY
This course examines the historical theoretical and behavioral foundations of the industrial economy of the U.S. Particular emphasis is placed on technological change, the culture of modern corporations, strategic planning and the contemporary environment of business enterprise (legal, social, environmental and economic). The major institutions of business structure of the modern corporation are covered. Prerequisites: ECON 201, ECON 202 and successful completion of WEPT Test. Offered: Fall.

3 hrs

SOC-SCI 375 P  
CONTEMPORARY ISSUES IN THE SERVICE INDUSTRY
This course will allow students to undertake in-depth research of current issues important to the service industry. Focus will be placed on understanding theoretical principles and their impact on management behavior and decision making. Issues may include; the evolving technology of the industry, the impact of the industry on national employment issues, and the social impact of the industry on class and racial issues. This course is offered as an independent study and must be taken in conjunction with ECON 323P: Administration in the Service Industry. Prerequisites: None. Offered: Any Semester.

4 hrs

SOC-SCI 395 B  
THE ECONOMICS OF THE LAW
See ECON 395B. Prerequisites: ECON 201 and ECON 202. Offered: Fall.
1 hr
SOC-SCI 395 C  ECONOMICS OF ENERGY
See ECON 395C. Offered: Fall.

1 hr
SOC-SCI 395 G  ECONOMICS OF POVERTY
See ECON 395G. Offered: Fall.

1 hr
SOC-SCI 397 A  THE ECONOMICS OF PUBLIC PROCESS I
This film/tape course and ECON 397B are specifically designed in the format of the PACE program. Regular majors in economics may count one of these two courses as meeting the 27 minimum required departmental hours. The J.K. Galbraith film series and text, The Age of Uncertainty, provide the central theme for this course. Offered: Fall.

1 hr
SOC-SCI 397 B  THE ECONOMICS OF PUBLIC PROCESS II
This film/tape course and ECON 397A are specifically designed in the format of the PACE program. Regular majors in economics may count one of these two courses as meeting the 27 minimum required departmental hours. The Milton Friedman film series, Free to Choose, provides the central theme for this course. Prerequisites: ECON 201 and ECON 202. Offered: Summer.

1 hr
SOC-SCI 411 P  AGING IN AMERICAN SOCIETY: PAST AND PRESENT
Modern views of aging are often contrasted with views of aging in earlier times. The popular mythology suggests that the position of the older adult has fallen from a place of high status and respect. Exploring the myths and rhetoric, this introduction to the field of social gerontology examines aging in America as grounded in the nation’s history and a variety of sociocultural contexts.

4 hrs
SOC-SCI 438 P  LABOR HISTORY & ECONOMIC POLICY
Analysis of the confluence of political and economic behavior the economics of collective action. Prerequisites: ECON 301 and ECON 302.

3 hrs
SOC-SCI 456 P  IN-DEPTH COUNTRY STUDY
Students enrolled in this section will chose a country in Latin America (not their country of origin, if applicable) and prepare a country study. Students will receive a general reading list (which has to be incorporated) and, if desired, suggestions about country-specific readings. The studies should be founded in cultural anthropology: i.e., they should be holistic in integrating all population groups of the country, and they should be integrated in treating the country as an inter-connected, but open, system.

4 hrs
SOC-SCI 465 P  HUMAN RESOURCES IN THE SERVICE INDUSTRY
This course will trace the historical development, and examine current policies and procedures of human resources in service organizations. Special emphasis will be placed on understanding the evolving importance of employees in developing systems to meet operational goals. Management and labor perspectives on legal employment issues, compensations issues, and team development strategies will be examined. Prerequisites: None. Offered: Any Semester.

4 hrs
SOC-SCI 489 P  INTERNSHIP IN HOTEL/OUSITY STUDIES
This course will allow students to demonstrate mastery of acquired theories and principles in conjunction with a working hospitality organization. Emphasis will be placed on directed research and readings to enhance individual understanding or concepts. Students will work with the Hospitality Studies Coordinator on exact course requirements. Prerequisites: Permission of instructor. Offered: Every Semester.

4 hrs
SOC-SCI 490 C  READINGS IN LABOR ECONOMICS
See ECON 490C. Prerequisites: ECON 201 and ECON 202. Offered: Winter.

1 hr
SOCIOLOGY
SOCIO 101  SOCIOLOGY: AN INTRODUCTION
An introduction to the study of society and the basic concepts of sociology. Fall, winter, summer.

3 hrs
SOCIO 103  INTRODUCTION TO CULTURAL ANTHROPOLOGY
An introduction to culture and the basic concepts of anthropology. Topics include kinship, language, and cultural change. Also offered as ANTHRO 103. Offered: Fall/Winter.

3 hrs
SOCIO 201  INTRODUCTION TO SOCIAL PSYCHOLOGY
Exploration of the relationships between human behavior and social context. The course focuses on how realities are socially constructed and sustained, the role of symbol systems, definitions of the situation, the self as a product of interaction, and the relationship between language, thought and culture. Offered: Fall/Winter.

3 hrs
SOCIO 202 R  SOCIAL ORGANIZATION
This course focuses on the principles of social organization that undergird all human societies: social groups; age and gender differences; the institutions of family, economy, religion and polity; power; community and other units of residence; and social differentiation based on such factors as wealth and/or prestige. The focus of analysis is on the maintenance of social order, social change, and integration of society. Crosslisted with ANTHRO 202R. Prerequisite: SOC-SCI 101. Offered: Every semester.
SOCIO 203  CONTEMPORARY AMERICAN ISSUES
An examination of major social problems of modern Western society, including issues of racial conflict, war, civil rights, youth movements, the mass media, urban poverty, and crime. The topics will vary from year to year depending upon the instructor. Fall, winter.

SOCIO 211  SOCIAL AND PSYCHOLOGICAL DEVELOPMENT THROUGH THE LIFE CYCLE
A survey of significant psychosocial issues, events and crises throughout the human life span. The life cycle of the family is examined as the primary context within which individual development occurs. Although the primary emphasis will be on normal adjustment and development, attention will also be given to the occurrence of special problems and deviations at each life stage. Fall/winter.

SOCIO 300 CF  SPECIAL TOPICS IN SOCIOLOGY
Each time this course is offered, a different area of sociology, to be announced, will be given. Crosslisted with ANTHRO 300R

SOCIO 300 R  SPECIAL TOPICS IN SOCIOLOGY
Each time this course is offered, a different area of sociology, to be announced, will be given. Also offered as ANTHRO 300R.

SOCIO 300 RD  SPECIAL TOPICS IN SOCIOLOGY

SOCIO 300 RV  SPECIAL TOPICS IN SOCIOLOGY

SOCIO 302  SOCIAL STRATIFICATION
The distribution of power, privileges and prestige are examined in a historical and comparative perspective. The process whereby distribution systems develop, become institutionalized, and become transformed are analyzed. Offered: Fall.

SOCIO 303  CLUSTER COURSE: INTERDISCIPLINARY STUDIES

SOCIO 303 CA  CLUSTER COURSE: PERSPECTIVES IN SCIENCE AND HEALING

SOCIO 303 CF  CLUSTER COURSE: AFRICAN AND AFRICAN AMERICAN WOMEN AND CREATIVITY

SOCIO 303 CD  CLUSTER COURSE: ISSUES IN DEATH AND DYING
This course reviews historical and theoretical perspectives on death and dying. It explores the relationship of death to the social structure and culture in which it occurs, and examines interdisciplinary issues concerning death and contemporary society.

SOCIO 303 CP  CLUSTER COURSE: RELIGION IN AMERICA

SOCIO 303 CT  CLUSTER COURSE: HEALING AND CULTURAL DIVERSITY

SOCIO 303 CW  CLUSTER COURSE: INTRODUCTION TO WOMEN'S STUDIES
What does it mean to grow up female in America? How does being female influence the body, the mind, identity? This course is an interdisciplinary exploration of the issues that have shaped the lives of American women throughout the life cycle and across the timeline. This course examines the role that culture and society have played in shaping and defining what it means to be an American girl and woman.

SOCIO 310 R  FAMILIES AND THE LIFE COURSE
This course is an upper level introduction examining the sociological, historical, and social psychological research on the family, focusing primarily on the United States. The course examines families of varied ethnicity, as well as family compositions at different stages of the life course. Emphasis is placed on the interdependence of family members, as well as how society and policy influence the family.
This course will trace the imagery of the American Indian used by film makers through the years and how this has played a role in reinforcing certain inaccurate perceptions of American Indian cultural, social, and economic life. The course examines the sociological implications created by persistently showing misrepresented images of American Indians. The goal is to measure and compare the reality of American Indian life (values, traditions, and beliefs) with the images created by film makers from the early years of the 20th century to the present. Also cross listed as ANTHRO 323.
SOCIOL 331  URBAN ANTHROPOLOGY
A course designed to apply anthropological methods to the study of various urban environments. The approach to the subject is comparative, seeking to spell out those features of the urban setting which vary from culture to culture as well as those which are common to all. Crosslisted with ANTHRO 331. Offered: Fall.
3 hrs

SOCIOL 332  SOCIOLOGY OF POLITICAL LIFE
The concept of power, community power structure and decision making. The social basis of liberal democracy; consensus and legitimacy; political stability and instability. Power and politics in a mass society; elites and masses; democracy and oligarchy; alienation; bureaucracy; pluralism and totalitarianism. Ideology and social movements.
3 hrs

SOCIOL 335 R  INTRODUCTION TO SOCIAL WORK: PRINCIPLES AND PRACTICE
An introductory course to social work, its history and current role in the delivery of social welfare services. Designed to give the student insight into the body of knowledge, theory, values, principles, and techniques of the social work process. Investigation into the varieties of practice methods, i.e., casework, group work, community organization, and the present trend toward the generic approach. Fall/winter.
3 hrs

SOCIOL 336  SOCIETY AND COMMUNITY SERVICE
This course explores the history and increasing importance of the non-profit sector and volunteerism. Applying theoretical approaches from development and community organizing, the course analyzes the uses of volunteerism and NGOs nationally and internationally. Students’ understanding will be enhanced through the inclusion of applied methods needed to manage a non-profit organization and by serving in an internship in a local non-profit during the semester. Offered: Fall Semester
3 hrs

SOCIOL 337  COMMUNITY DEVELOPMENT IN URBAN AMERICA
The focus in this course is on experiential learning in which the student participates in several urban community development projects that allow for learning about collaboratives, networking, problem-solving, and requisite skills to successfully manage a project. Principles of community development are presented to give the student background for understanding the projects visited.
3 hrs

SOCIOL 339  AMERICAN INDIAN LEADERS: PAST AND PRESENT
This course will examine the definition of leadership as it relates to American Indian issues. Consideration will be given to the nuances of leadership by examining the social, cultural, economic, and political situations that gave cause for particular individuals to assume roles of Indian ranks with those practiced by non-indian leaders. It will trace the evolving nature of leadership within tribal nations and American Indian communities from past to present, as well as looking at Indian leadership roles in time of war and peace. Lives of the major characters of American Indian historical record will be reviewed, such as Geronimo, Crazy horse, Sitting Bull, Osceola, Tecumseh, Pontic, Black Hawk, Quannah Parker, and Captain Jack. Also cross listed as ANTHRO 326.
1 hr

SOCIOL 341 R  THE ANTHROPOLOGY OF ECONOMIC INSTITUTIONS
Examines in a comparative perspective the social, cultural and political framework of economic activities. Emphasis is placed on socioeconomic systems and the contradictions they generate. Crosslisted with ANTHRO 341R. Offered: Annually.
3 hrs

SOCIOL 343  SOCIETIES AND CULTURES OF LATIN AMERICA
A survey of emerging cultures and societies in Latin America; pre-history and geography; the Mayan, the Aztec and Incan civilizations; contemporary Indian, peasant and urban subcultures; the impact of forces such as migration, urbanization, peasant mobilization, and agrarian reform. Also offered as ANTHRO 343.
3 hrs

SOCIOL 346  CULTURES OF THE AFRICAN DIASPORA
This course will explore the cultures of African people and their descendents who settled in Europe, the Caribbean or the Americas due primarily to the impact of the Trans-Atlantic trade in human beings. The focus will be comparative, with emphasis on cultural adaptation, kinship systems, music and religion.
3 hrs

SOCIOL 347  THE AMERICAN INDIAN IMAGE: STEREOTYPE VS. REALITY
This class will take a historical, sociological, and cultural approach to review how society at large views American Indians. The course will trace the origin and continued use of American Indian stereotyped views, and assess the sociological and psychological complications that result when judging Indians solely on stereotyped imagery. The course will review the historical content of American Indian life as portrayed in early plays, films, and newspaper accounts and compare these stereotyped images with the reality of American Indian life by providing a depiction of a series of historical events that will offer a more balanced and accurate consideration for American Indian life past and present. Also cross listed as ANTHRO 324.
1 hr

SOCIOL 347  ANTHROPOLOGY OF RELIGION
This course explores the ways anthropologist have gone about studying religion from the opening decades of the 20th century to present. The course introduces students to the diversity of human religious expression and experience through anthropological literature and to the diversity of anthropological expression especially as it has been revealed in social scientific studies of religious life. The course is designed to generate a critical dialogue about the special role that religion has played n the ongoing anthropological engagement with “other” societies and cultures over time
3 hrs

SOCIOL 348  LATIN AMERICAN IMMIGRANTS & REFUGEES IN THE U.S.
The course is an introduction to the study of the culture and societies of U.S. citizens and immigrants of Latin American heritage living in the U.S. The course emphasizes recent anthropological as well as historical and cultural studies. Topics covered: ethnointerstency, and cultural diffusion over successive generations.
3 hrs

SOCIOL 351  GENDER, WORK AND SOCIAL CHANGE
This course examines the role of gendered work and consumption in global social change. Drawing from sociological perspectives on gender and work, this course foregrounds a global comparative analysis of societal development and working contexts, including tourism employment, sex work, domestic work, and agricultural, garment, and informatics production. Academic-service learning constitutes a primary course assignment. Offered: Winter
SOCIOL 352  Multicultural Women's Histories In The U.S.
This course offers an introduction to the histories of women in the U.S. from the 17th to the beginning of the 20th century. We will study colonial and US women of Native, Latino, European, African, and Asian descent, their contact with women (and men) of other ethnic groups, the political, economic, and legal changes affecting their lives, and the images they created of themselves and each other. Offered: Every Fall Semester

1 hr

SOCIOL 353  Women, Class, And Ethnicity In The U.S.
This course focuses on contemporary women's lives and issues such as welfare and immigration, stereotypical imagery, and the pressure to put ethnic and/or class interests before gender concerns. We will study women of Native, African, European, Latin, Asian, and heterogeneous descent and the ethnic, economic, and legal forces shaping their lives. Offered: Every Fall

1 hr

SOCIOL 354  Women's Lives In The Global Economy
This class explores the realities of women's and the work that women contribute to all societies. Using an anthropological approach, we will explore women's productive work in gathering, horticulture, agriculture, and industrialization, women's reproductive work, as well as their work of status enhancement and caring. Highlighting the changes wrought by colonialism, we will also explore women's work, both voluntary and involuntary, in the global economy. Offered: Every Winter Semester

1 hr

SOCIOL 355  The United Nations' Women Conferences
This class studies the United Women's Conferences in Mexico City (1975), Copenhagen (1980), Nairobi (1985), Beijing (1995), and Beijing +5 (2000), their themes, participants, documents, solutions, and consequences. Special attention will be paid to women's human rights. Offered: Every Winter Semester

1 hr

SOCIOL 356  Cross-Cultural Gender Conceptions
This class surveys the varieties of gender definitions and roles in historical and contemporary human cultures in their association to stratified or equitable access to economic, political, and ideological resources. Topics include the definitions and varieties of human sexes and of human genders, and the multiple ways in which people create sexual and gender intersections and variations. Offered: Every Winter Semester

1 hr

SOCIOL 361  Social Theory
A survey of the major orientations in social theory, their historical development, and contemporary issues and controversies in social theory. Prerequisite: 3 hours in social science.

3 hrs

SOCIOL 362  Methods Of Sociological Research
Experimental and observational schemes; survey analysis; interview and questionnaire designs; scaling techniques; sampling. Also offered as CJC 483.

3 hrs

SOCIOL 363  Introduction To Statistics In Sociology/Criminal Justice
A first course in the statistical analysis of quantitative data. Course emphasizes descriptive statistics, probability theory, parameter estimation, bivariate hypothesis testing, and computer applications. Prerequisites: MATH 110, MATH 116 or an equivalent. Offered: Fall

3 hrs

SOCIOL 372  Introduction To The Sociology Of Religion
Using the tremendous diversity of religious belief and practice in North America, in particular new religious movements, this class will acquaint students with the academic study of religion as a social (and sociological) phenomenon. Students will learn how religion has been interpreted by sociologists in the past, and how evolving perspectives shape both the way academics perceive religion and how they study it. They will learn how religion permeates and affects virtually every domain of human culture and interaction. And they will gain experience in fieldwork, coming to understand in the process religious traditions other than those in which they may have been raised.

3 hrs

SOCIOL 381 P  Everyday Masculinities
This independent study course is designed to encourage students to put into play their study of and growing understanding of men's lives. Each student will design and carry out an independent study/research project that will take into account (critically) the experience of at least three men in their immediate surroundings. Ethnographic methods (observation, field-note/interview and transcription strategies, write-up, etc.) will be covered to facilitate the student's successful completion of their project. The project will be broken down into phases to ensure timely progress throughout the semester. Restrictions: Concurrent enrollment in Meanings of Masculinity required.

4 hrs

SOCIOL 390 R  Directed Field Experience I
The student will work within one or more social agencies or organizations in the city under the joint supervision of a professional within the organization and a member of the Sociology Department. In-class discussion will cover the major problems of social organization. Prerequisite: Consent of instructor.

1-6 hrs

SOCIOL 390 RA  Directed Field Experience I

1-6 hrs

SOCIOL 391  Directed Field Experience II
A continuation of SOCIOL 390. Winter.

1-6 hrs
SOCIOL 397  INDEPENDENT READINGS IN SOCIOLOGY  
Intensive readings in an area selected by the student with prior consultation with instructor. Prerequisite: Twelve hours of sociology. On demand.  
1-3 hrs

SOCIOL 398  INDEPENDENT RESEARCH IN SOCIOLOGY  
Intensive research in an area selected by the student with prior consultation with instructor. Prerequisite: Twelve hours of sociology. On demand.  
1-6 hrs

SOCIOL 404 WI  THE SOCIOLOGY CAPSTONE: SENIOR SEMINAR  
A seminar which explores the interrelationships between sociology theory, research methods and statistics. May focus on major contemporary issues building on and integrating knowledge obtained in previous courses. This course is a writing intensive course and satisfies this requirement for the general degree requirements of the college. Prerequisites: SOCIOL 361, SOCIOL 363, SOCIOL 365. Offered: Fall/Winter.  
3 hrs

SOCIOL 410 R  AGING IN CONTEMPORARY SOCIETY  
Attitudes and stereotypes, the status of the aged in American society; the social psychology of the aging process; the response of societal institutions such as the family and political system to the aging of the population as a whole. Applications and potentials of research are considered.  
3 hrs

SOCIOL 411  SOCIOLOGY OF HUMAN SEXUALITY  
A cross-cultural examination of the most fundamental dichotomy in human society: male and female. Considering sex both as a biological and social category, this course compares diversity and similarity in the interrelationships of male and female in patterns of behavior and social organization found in human societies across time and space.  
3 hrs

SOCIOL 416  AGING AND DEVELOPMENTAL DISABILITIES  
This course explores the experience of aging with a developmental disability or mental retardation within the context of normative aging. Among the comparisons made between older persons with and without developmental disabilities are their demographic characteristics, physical and cognitive functioning, role transitions and losses, identities and self-concepts, and family and caregiving issues. Policies, programs, and emerging concepts of best practices are considered within the context of quality of life, ethical, and community inclusion issues. Prerequisites: None. Offered: Summer.  
2 hrs

SOCIOL 417  PRACTICUM IN AGING AND DEVELOPMENTAL DISABILITIES  
Students gain experience in working with and defining issues of Older persons with developmental disabilities through placements in sheltered workshops, senior centers, residential group homes, and other community-based programs. Prerequisites: None. Offered: Summer.  
1 hr

SOCIOL 418  FEMINIST THEORIES  
This class introduces the major feminist theories and their primary authors over the last 200 years. The class takes both a historical view (beginning with two millennia of male-centered theories about women) and a conceptual approach (theories are grouped by common ground) and familiarizes the student with both the historical processes that necessitate feminist theories as well as with the breadth and depth of the historically and currently available scholarship. Prerequisite: Introduction to Women's Studies Offered: Winter Semester  
3 hrs

SOCIOL 420  CONTROL OF CRIME AND DELINQUENCY  
The various ways societies have tried to control and prevent violations. Topics: the nature and types of law; a critical analysis of the American police, judicial and penal systems; the prevention of crime and delinquency. Also offered as CJC 420. Offered: Fall semester  
3 hrs

SOCIOL 421  CRIMINAL BEHAVIOR IN THE UNITED STATES  
A description and causal analysis of complex forms of criminal behavior in contemporary American society; included for study will be organized and professional crime, white collar crime, homicide, suicide, and crimes against morals involving sex, alcohol, drugs and gambling. Winter.  
3 hrs

SOCIOL 424  THE DEATH PENALTY IN AMERICA  
This course takes a sociological look at the most extreme punishment currently in use in the United States. Society debates its value without giving much weight to the research which social science conducts. Indeed, the political domain frequently misrepresents the data that is available. The course evaluates the adequacy of the research and separates the strands of the debates in order to understand the role of the death penalty in our society. Also offered as CJC 424.  
3 hrs

SOCIOL 430 R  COMPLEX ORGANIZATIONS  
The sociology of complex organizations examines sociological theories and methods that explain what an organization is trying to accomplish and ways in which performance can be assessed. Emphasis will be on internal structures and processes of organizations, the organization's relationship to the individual and the organization's environment.  
3 hrs

SOCIOL 431  SOCIAL ORGANIZATION OF THE CITY  
An examination of the social structure of the American city with special reference to the historical development of American cities. Attention will be focused on the role of social institutions as they have changed in relation to urban problems.  
3 hrs

SOCIOL 439  SOCIAL MEANINGS OF ILLNESS, SUFFERING AND HEALING
The course explores the human experience of illness and healing and its intersection with cultural values and institutional arrangements. Various meanings that are associated with the experience of being sick and caring for the sick are examined, especially in terms of economic, cultural, and racial factors. The struggle to make sense out of suffering and the harshness of disease is examined, as is the possibility for growth, transformation, and healing that are contained in the illness experience. Offered: Summer

3 hrs

**SOCIO 440**  **R**  **SOCIOLOGY OF MEDICINE**
Relationship of basic concepts in sociology to health and medical care. Cultural and class variations in health status. Social and cultural aspects of health.

3 hrs

**SOCIO 441**  **DEVELOPING COUNTRIES**
Focuses on issues of economic development, social stratification, political institutions, and political mobilization in societies where colonialism provided the context for their long-term disadvantages in the international economic order. Specific attention is paid to the intersection of the international components that define the options and limits for societal development (e.g., market shifts, international institutions and contracts, foreign policies, and migration) and the distinct social, political and cultural implications of these factors for developing societies. Crosslisted with ANTHRO 441.

3 hrs

**SOCIO 470**  **COLLOQUIUM: LAW AND SOCIAL STRUCTURE**

3 hrs

**SOCIO 486**  **METHODS OF PROGRAM EVALUATION**
This course focuses on applying research methodological techniques to evaluation of programs designed to respond to social problems and issues (e.g., drug use, crime, delinquency, indigent care). Topics of interest to those charged with designing and executing program evaluations are considered, including types of program evaluation assessment, use of time series models, special research issues for program evaluation and generating and testing hypotheses from program objectives. Also offered as CJC 486. Annually.

3 hrs

**SPANISH**

**SPANISH 110**  **ELEMENTARY SPANISH I**
The goals of this course are an ability to speak and to understand simple (spoken) Spanish as well as to read and write simple prose. Every semester and summer.

5 hrs

**SPANISH 120**  **ELEMENTARY SPANISH II**
Continuation of SPANISH 110. Every semester. Prerequisite(s): SPANISH 110 or equivalent.

5 hrs

**SPANISH 211**  **SECOND YEAR SPANISH I**
Further development of comprehension and communicative skills in the language. Readings of moderate difficulty and grammar review. Practice in writing. The goal is attainment of intermediate proficiency in the language. Prerequisite: SPANISH 120. Fall.

3 hrs

**SPANISH 216**  **SPANISH FOR THE HEALTH SCIENCES**
This course will enable the student to converse with Hispanic patients and/or hospital personnel in situations such as admissions, patient care, lab work as ordered by a physician or dentist, emergency room procedures, etc. In addition, medical readings in Spanish will give professional and paraprofessional students an increased vocabulary related to the many fields within the health sciences. This course will satisfy one semester of the A&S language requirement. Prerequisite: one year of college Spanish or its equivalent. Summer and on demand.

3 hrs

**SPANISH 221**  **SECOND YEAR SPANISH II**
Continuation of SPANISH 211. Winter.

3 hrs

**SPANISH 250**  **COMMERCIAL SPANISH**
Business practices in correspondence in the Spanish language; special vocabulary of business, trade, banking and administration. Refinement of grammatical and stylistic skills. Subjects treated include price inquiries, quotations, offers, orders, complaints, administrative, banking and diplomatic correspondence. Prerequisite: SPANISH 221 or equivalent.

3 hrs

**SPANISH 280**  **SPECIAL INTERMEDIATE SPANISH TOPICS I**
Instruction of Spanish on the second-year/intermediate level introducing new methods of foreign language teaching or special texts and topics not normally offered through regular courses. May not be repeated for credit. Prerequisite: Elementary I and II college-level courses or equivalent. As needed.

2-4 hrs

**SPANISH 290**  **SPECIAL INTERMEDIATE SPANISH TOPICS II**
Continuation of SPANISH 280. May not be repeated for credit. As needed.

2-4 hrs

**SPANISH 301**  **INTRODUCTION TO LITERARY STUDIES**
Emphasis will be placed on the study of literary theory and the philosophical ideas behind the literary movements, their relations and differences. A representative work or works of each genre will be thoroughly studied and analyzed. Critical reports will be written about different features of the literary works under consideration. Strongly recommended for all majors, to be taken before 400-level literature courses. Prerequisite: SPANISH 315

3 hrs
SPANISH 315  INTERMEDIATE CONVERSATION AND COMPOSITION I
Grammar review, practice in speaking and writing Spanish; emphasis on idiomatic usage and practical vocabulary. Required for major. Prerequisite: SPANISH 221 or equivalent. Every fall.
3 hrs

SPANISH 325  INTERMEDIATE CONVERSATION AND COMPOSITION II
Continuation of SPANISH 315. Required for major. Prerequisite: SPANISH 315. Every winter.
3 hrs

SPANISH 350  CONTINENTAL SPANISH CIVILIZATION
General cultural characteristics of Spain. Readings from representative literary works.
3 hrs

SPANISH 351  LATIN AMERICAN CIVILIZATION
Historical development of Latin America. Readings from representative literary works.
3 hrs

SPANISH 365  THE SEARCH FOR MEXICAN IDENTITY
The goal of the course is to familiarize the student with the poignant search for self awareness and definition witnessed in the letters and fine arts of Mexico in the 20th-century. Readings will include works by Vasconcelos, Reyes, Ramos, Paz, Rulfo and Fuentes, and will be complemented by slide presentations of pertinent works by major artists.
3 hrs

SPANISH 373  HISTORY OF SPANISH LITERATURE I
A study of the development of Spanish peninsular literature from the Middle Ages to 1700. Prerequisite: SPANISH 315 & SPANISH 325
3 hrs

SPANISH 374  HISTORY OF SPANISH LITERATURE II
A study of the development of Spanish peninsular literature from 1700 to present. Prerequisite: SPANISH 315 & SPANISH 325
3 hrs

SPANISH 380  SPECIAL TOPICS
Treatment of a particular genre or area of literature or language normally not offered through regular courses. May be repeated for credit when the topic changes. Prerequisite: Permission of the instructor.
1-3 hrs

SPANISH 401  INTRODUCTION TO SPANISH AMERICAN LITERATURE I
The colonial period. Selected readings in historical and literary material from the time of the conquest to the period of struggle for independence. On demand.
3 hrs

SPANISH 402  INTRODUCTION TO SPANISH AMERICAN LITERATURE II
The 19th and 20th-centuries. Selected readings from prose and poetry of Spanish-American writers. On demand.
3 hrs

SPANISH 414  THE GENERATION OF 1898
An examination of the intellectual, critical, historical, and social problems as reflected in the writings of Gaminet, Unamuno, Valle-Inclan, Baroja, Azorin, and others. Also offered as SPANISH 5514.
3 hrs

SPANISH 415  ADVANCED CONVERSATION AND COMPOSITION I
Continued practice in speaking and writing Spanish, with attention to the elements of style. Continued in SPANISH 425. First semester required of all majors and second semester recommended. Both semesters required of prospective high school teachers. Either or both semesters may be repeated with the consent of the instructor and the department chairman. No more than six hours credit may be applied towards a degree. Prerequisite: SPANISH 325. Every fall.
3 hrs

SPANISH 416  MEDIEVAL SPANISH LITERATURE
From the Cantar de Mio Cid to 1499. Winter.
3 hrs

SPANISH 417  SPANISH-AMERICAN LYRIC POETRY
A survey of poetry in Spanish America from Colonial times to World War II, including a study of the most representative poets and their writings. Winter.
3 hrs

SPANISH 418  ROMANTIC MOVEMENT IN SPAIN
The origin and development of romantic literature against the historical and ideological background of the first half of the 19th century. Various literary genres will be studied; these will include works by Rives, Espronceda, Larra, Zorrilla, Gil y Carrasco, Becquer and others.
3 hrs
SPANISH 420  CERVANTES' DON QUIXOTE, PART I
An intensive reading of the first part of Cervantes' novel, Don Quixote.
3 hrs

SPANISH 421  CERVANTES' DON QUIXOTE, PART II
An intensive reading of the second part of Cervantes' novel, Don Quixote. Part One is not a prerequisite. Also offered as SPANISH 5521.
3 hrs

SPANISH 425  ADVANCED CONVERSATION AND COMPOSITION II
3 hrs

SPANISH 426  GOLDEN AGE DRAMA
The development of the Spanish drama from Lope's youth to the death of Calderon. Also offered as SPANISH 5526.
3 hrs

SPANISH 427  PRE-COLUMBIAN AND SPANISH COLONIAL LITERATURE
A study of the pre-Columbian works in drama, narrative, and poetry (Popol Vuh, Apu-Ollantay, Incan and Aztec poetry) leading into a survey of Spanish-American colonial literature. Also offered as SPANISH 5527.
3 hrs

SPANISH 428  CONTEMPORARY SPANISH POETRY
A comprehensive and intensive study of 20th-century Spanish poetry. Poets and poetry will be studied in the light of literary movements, foreign influences, political tendencies and philosophical ideas. Also offered as SPANISH 5528.
3 hrs

SPANISH 429  THE NOVEL OF THE MEXICAN REVOLUTION
The revolution as the principal focus of 20th-century Mexican fiction. The course will examine both the evolving understanding of the event/process and the sophistication of narrative technique employed in its presentation. Among the writers to be studied are Azuela, Guzman, Lopez y Fuentes, Yanez, Revueltas, Rulfo and Fuentes. Also offered as SPANISH 529.
3 hrs

SPANISH 430  SPANISH MYSTICISM
An examination of the development of mysticism in Oriental and Occidental civilizations, with emphasis on the great periods of mystic experience as reflected in the literary production of the Spanish Golden Age. Readings could include the works of Fray Luis de Granada, Fray, Luis de Leon, Saint John of the Cross and Saint Teresa of Avila. Also offered as SPANISH 5530.
3 hrs

SPANISH 431  THE GOLDEN AGE NOVEL
A study of major prose works of the Golden Age. Possible topics include authorship, innovative narrative techniques, textual strategies and metafiction issues. Readings could include works by Alfonso Martinez de Toledo, Diego de San Pedro, Fernando de Rojas, Francisco Delicado, Cervantes, and Lope de Vega. Also offered as SPANISH 5531.
3 hrs

SPANISH 432  PASTORAL LITERATURE
A study of the development of pastoral literature during the Spanish Golden Age. Possible texts: Juan del Encina's Eclogues, Montemayor's Los siete libros de la Diana and Cervantes' Galatea. These works will be examined within their historical and cultural context. Also offered as SPANISH 5532.
3 hrs

SPANISH 433  CERVANTES' EXEMPLARY NOVELS
A study of Cervantes' Exemplary Novels within the context of 17th-Century Spain. Attention will be paid to interpretive possibilities and how knowledge of historical contexts might influence readings of this rich and varied cultural output. Also offered as SPANISH 5533.
3 hrs

SPANISH 434  THE PICARESQUE NOVEL
A study of the development of picaresque fiction during the Spanish Golden Age. The course deals with novelists principally active during the Baroque period such as Mateo Aleman, Francisco Lopez de Ubeda, Miguel de Cervantes, and Francisco de Quevedo. Also offered as SPANISH 5534.
3 hrs

SPANISH 450  MODERN CLASSICS OF LATIN AMERICAN LITERATURE
The goal of the course is to familiarize the student with the principal Latin American writers of the modern period. The focus will be dual: the progressive sophistication of literary technique and the refinement of social conscience. Among the authors to be studied are: Asturias, Borges, Carpenter, Cortazar, Donoso, Fuentes, Garcia Marquez, Paz, Rulfo and Vargas Llosa. Also offered as SPANISH 5550.
3 hrs

SPANISH 453  SPANISH-AMERICAN SHORT STORY
A study of Spanish-American short stories from Romanticism to the present. Also offered as SPANISH 5553.
3 hrs
SPANISH 460  U.S.-LATINO LITERATURE
An interdisciplinary approach to U.S.-Latino Studies, including both literary and cultural texts. The course will be taught in English, the language in which the texts are produced. Also offered as SPANISH 5560.

3 hrs

SPANISH 480  SPECIAL TOPICS
Each time this course is offered a particular genre or area of literature will be treated. Topics will be announced in advance. May be repeated for credit when the topic changes. Permission of the department chairman is required. On demand.

1-3 hrs

SPANISH 490  SPECIAL READINGS
Intensive readings in field or literary figure to be selected by the student in consultation with the instructor. Available, by permission only, to advanced students of Spanish; available only when student cannot take regularly scheduled courses. Prerequisite: 3.0 GPA. On demand.

1-3 hrs

SPANISH 499  SENIOR SEMINAR (CAPSTONE)
Required for major. Covers seminal works of Peninsular and Latin American literature in their historical and cultural context. Course content varies, but will include such elements as geography, politics, folklore, history of the language, architecture, art and music. To be taken during final Fall Semester of residence. Prerequisite: 18 hours beyond first year Offered: Fall

3 hrs

STATISTICS

STAT 234  MATHEMATICS FOR TEACHERS: PROBABILITY AND STATISTICS
Designed for elementary-and middle-school mathematics teachers. Foundational knowledge of probability and statistics, elements of statistics, organizing, displaying and describing data, probability distributions, correlation, regression, prediction, estimation.

3 hrs

STAT 235  ELEMENTARY STATISTICS
An introduction to descriptive and inferential statistics. Organization and presentation of data, averages and variations, elementary probability, random variables, special discrete distributions, normal distributions, sampling distributions, point estimation, confidence intervals, and hypothesis testing. Credit will not be given for both STAT 235 and STAT 236. Prerequisite: 4 units high school math or MATH 110. Semester offered: Fall, Winter, Summer

3 hrs

STAT 236  APPLIED STATISTICS FOR PUBLIC ADMINISTRATION
Designed for students in business, public administration, and urban studies; will cover descriptive and inferential statistics, elementary probability, analysis of nominal and ordinal data, regression analysis; will use a statistical software package to apply the tools of statistics and answer quantitative questions. Credit will not be given for both MATH 235 and MATH 236. Prerequisite: 4 units high school math or MATH 110

3 hrs

STAT 436  INTRODUCTION TO MATHEMATICAL STATISTICS I
Sample space, conditional probability, random variables, probability distribution functions and probability densities; transformations of random variables, mathematical expectation, conditional distributions and expectations, laws of large numbers and limit theorems, applications. Prerequisite: MATH 250. Fall.

3 hrs

STAT 441  INTRODUCTION TO MATHEMATICAL STATISTICS II
Sampling Distributions; point estimation; internal estimation; hypothesis testing; analysis of variance; nonparametric methods; statistical software applications; topics in Applied Statistics. Prerequisites: STAT 436. Offered: Winter

3 hrs

THEATRE

THEATRE 100  TOPICAL STUDIES IN THEATRE PRACTICE
(A, B, C, D) This course provides students with an opportunity to explore special offerings in theater practice. No prerequisite. Does not fulfill general education course requirement in the Fine Arts or Humanities. May count for elective credit in the Theatre major. Different sections of the course may be repeated. On demand.

1-3 hrs

THEATRE 101  INTRODUCTION TO ACTING
An introductory course to acquaint the freshman theatre major and non-major student with the process of acting through relaxation and improvisational exercise.

3 hrs

THEATRE 113  INTRODUCTION TO TECHNICAL PRODUCTION
An introduction to the technical production process with emphasis on production organization, planning and scenic construction techniques. Required laboratory work.

3 hrs

THEATRE 121  ORAL INTERPRETATION OF LITERATURE

3 hrs

THEATRE 130  FOUNDATIONS OF FINE ARTS THEATRE
An introduction to theatre arts and a general orientation to the creative and technical aspects of live performance. Includes historical overview, analysis of the components of a play, and observation of and critical reaction to theatrical productions. Frequent guest speakers.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 180</td>
<td><strong>THEATRE PRODUCTION I</strong></td>
<td>A practicum course in theatre to be elected for one credit each semester during the freshman and sophomore years. The student will be assigned to a different area each semester. High school students may elect for college credit. Every semester.</td>
</tr>
<tr>
<td>THEATRE 205</td>
<td><strong>SPEECH FOR THE THEATRE I</strong></td>
<td>Training in voice and articulation and the techniques of adaptation to the needs of the artist-performer in the theatre: exercises to free the voice, develop effective breathing, tone production, articulation, flexibility of vocal production, and projection.</td>
</tr>
<tr>
<td>THEATRE 208</td>
<td><strong>MOVEMENT FOR ACTORS</strong></td>
<td>Basic movement training including relaxation and alignment techniques, exercises to increase physical facility and skills to enhance rhythmic coordination and physical characterization. THEATRE 298A prerequisite for THEATRE 298B. Fall/winter.</td>
</tr>
<tr>
<td>THEATRE 300</td>
<td><strong>ACTING I</strong></td>
<td>Basic principles of dramatic performance: training in voice, movement and language as an organic developmental whole.</td>
</tr>
<tr>
<td>THEATRE 300 CH</td>
<td><strong>CLUSTER COURSE: HEALING AND THE ARTS</strong></td>
<td>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</td>
</tr>
<tr>
<td>THEATRE 300 CR</td>
<td><strong>INTERDISCIPLINARY STUDIES: SPECIAL TOPICS</strong></td>
<td>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.</td>
</tr>
<tr>
<td>THEATRE 300 CS</td>
<td><strong>CLUSTER COURSE: HISTORY OF RUSSIAN CULTURE</strong></td>
<td></td>
</tr>
<tr>
<td>THEATRE 315</td>
<td><strong>ACTING II</strong></td>
<td>Textual analysis, characterization and building a role. Prerequisite: Acting I (THEATRE 300).</td>
</tr>
<tr>
<td>THEATRE 317</td>
<td><strong>SCENE DESIGN</strong></td>
<td>Introduces the mechanics of layout: perspective, basic drafting techniques, front elevation and floorplan execution. Second half of the semester emphasizes scenic design as an art form. Prerequisite: THEATRE 113 (THEATRE 4311 recommended) or consent of instructor.</td>
</tr>
<tr>
<td>THEATRE 325</td>
<td><strong>ACTING III</strong></td>
<td>Study and practice of period and contemporary styles of acting. Prerequisite: Acting II (THEATRE 315). Each semester.</td>
</tr>
<tr>
<td>THEATRE 329</td>
<td><strong>MASTER CLASS IN ACTING</strong></td>
<td>(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.</td>
</tr>
<tr>
<td>THEATRE 331</td>
<td><strong>ADVANCED ORAL INTERPRETATION</strong></td>
<td>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.</td>
</tr>
<tr>
<td>THEATRE 333</td>
<td><strong>HISTORY OF COSTUMING</strong></td>
<td></td>
</tr>
<tr>
<td>THEATRE 340</td>
<td><strong>STAGE MAKEUP</strong></td>
<td>Lecture and laboratory work in the fundamentals of makeup for the stage.</td>
</tr>
<tr>
<td>THEATRE 350</td>
<td><strong>THEATER HISTORY I</strong></td>
<td>Development of theater art, including the physical stage, technical production elements, dramatic literature, and audience behavior from primitive origins to the 18th century.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>---------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>THEATRE 351 WI</td>
<td>THEATER HISTORY II</td>
<td>Development of Theater art, including the physical stage, technical production elements, dramatic literature, and audience behavior from the 18th century to the present.</td>
</tr>
<tr>
<td>THEATRE 352</td>
<td>HISTORY OF COSTUMING</td>
<td>The study of the history of costume, with emphasis on the social and economic ramifications of costuming through the ages.</td>
</tr>
<tr>
<td>THEATRE 371</td>
<td>STAGE LIGHTING</td>
<td>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.</td>
</tr>
<tr>
<td>THEATRE 373</td>
<td>MASTER CLASS IN TECHNOLOGY</td>
<td>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.</td>
</tr>
<tr>
<td>THEATRE 378</td>
<td>STAGE MANAGEMENT I</td>
<td>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.</td>
</tr>
<tr>
<td>THEATRE 379</td>
<td>MASTER CLASS IN DESIGN</td>
<td>Class in advanced studies in design. May be repeated for credit up to eight hours as content and guest artist change. Permission of instructor or head of area required. Undergraduate students elect THEATRE 379.</td>
</tr>
<tr>
<td>THEATRE 380</td>
<td>THEATER PRODUCTION II</td>
<td>A practicum course in theater to be taken one hour each of the last four semesters. The student will work in various areas each semester, to be selected from: (1) scenery construction, (2) scene painting, (3) stage crew, (4) wardrobe, (5) properties, (6) lighting, (7) house management, (8) assistant stage management. As advanced theater majors, each student will be expected to accept crewhead responsibilities and demonstrate proficiency in the areas selected. Prerequisite: THEATRE 113. Fall/winter/summer.</td>
</tr>
<tr>
<td>THEATRE 395</td>
<td>SPEECH FOR THE THEATER II</td>
<td>(C,D) THEATRE 395 is a continuation of THEATRE 295. The objective of these classes is: training in voice and articulation and the techniques of adaptation to the needs of the artist performer in the theater: exercises to free the voice, develop effective breathing, tone production, articulation, flexibility of vocal production, and projection. Prerequisites: THEATRE 295A and THEATRE 295B.</td>
</tr>
<tr>
<td>THEATRE 400</td>
<td>SPECIAL PROBLEMS IN THEATRE</td>
<td>(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.</td>
</tr>
<tr>
<td>THEATRE 400 A</td>
<td>SPECIAL PROBLEMS IN THEATRE: ACTING</td>
<td></td>
</tr>
<tr>
<td>THEATRE 400 B</td>
<td>SPECIAL PROBLEMS IN THEATRE: DESIGN</td>
<td></td>
</tr>
<tr>
<td>THEATRE 400 C</td>
<td>SPECIAL PROBLEMS IN THEATRE: COSTUMES</td>
<td></td>
</tr>
<tr>
<td>THEATRE 400 CC</td>
<td>THE PRACTICE AND THEORY OF CREATIVITY - CLUSTER COURSE</td>
<td>A team taught multidisciplinary course for undergraduate students that fosters awareness of the nature and power of creativity. One third of the class covers current literature on the creative process. The remainder uses arts as a catalyst for creative individual and group projects that foster communication and remove barriers to creativity. Throughout the course processes are taught which integrate creativity with the discipline necessary to realize the creative objective. Cross-listed with CONSVTY 434CH</td>
</tr>
<tr>
<td>THEATRE 400 CH</td>
<td>SPECIAL PROBLEMS IN THEATRE</td>
<td></td>
</tr>
</tbody>
</table>
THEATRE 400 D  SPECIAL PROBLEMS IN THEATRE: SCENIC DESIGN
1-6 hrs

THEATRE 400 E  SPECIAL PROBLEMS IN THEATRE: DIRECTING
1-6 hrs

THEATRE 400 F  SPECIAL PROBLEMS IN THEATRE: HISTORY
1-6 hrs

THEATRE 400 G  SPECIAL PROBLEMS IN THEATRE: LIGHTING
1-6 hrs

THEATRE 400 H  SPECIAL PROBLEMS IN THEATRE: PLAYWRITING
1-6 hrs

THEATRE 400 I  SPECIAL PROBLEMS IN THEATER: SOUND
1-6 hrs

THEATRE 400 J  SPECIAL PROBLEMS IN THEATRE: STAGE MANAGEMENT
1-6 hrs

THEATRE 400 K  SPECIAL PROBLEMS IN THEATRE: TECHNICAL PRODUCTION
1-6 hrs

THEATRE 400 L  SPECIAL PROBLEMS IN THEATRE: THEATRE MANAGEMENT
1-6 hrs

THEATRE 400 M  SPECIAL PROBLEMS IN THEATRE: THEORY AND CRITICISM
1-6 hrs

THEATRE 400 N  SPECIAL PROBLEMS IN THEATRE: DRAMATURGY
1-6 hrs

THEATRE 400 P  SPECIAL PROBLEMS: STORYTELLING ART AND TECHNIQUE
1 hr

THEATRE 400 R  SPECIAL PROBLEMS IN THEATRE
1-6 hrs

THEATRE 400 S  SPECIAL TOPICS IN THEATRE
1-6 hrs

THEATRE 400 T  SPECIAL PROBLEMS IN THEATRE
1-6 hrs

THEATRE 400 U  SPECIAL TOPICS IN THEATRE
1-6 hrs

THEATRE 400 X  SPECIAL PROBLEMS IN THEATRE
1-6 hrs

THEATRE 401 CH  CC: THE PRACTICE AND STUDY OF CREATIVITY
This cluster course will provide students with a deep understanding of the mechanics value power and challenges of creativity in all aspects of their lives, allowing them to continually adapt themselves to a rapidly changing world and to become outstanding community leaders. The class will foster awareness of the nature and power of students' creativity from three different perspectives: visual arts/art history, theatre/dance, and music composition/performance. This course is cross-listed with CONSVTY 497CH.
3 hrs
THEATRE 415  BEGINNING DIRECTING
Theory and process of play production, including interpretation, composition, picturization, movement, rhythm, and character interpretation.
3 hrs

THEATRE 425  ADVANCED DIRECTING
Continuation of work in THEATRE 415, with special attention to proscenium, arena, and thrust staging techniques. Prerequisite: THEATRE 415 or equivalent experience.
3 hrs

THEATRE 431  RENDERING TECHNIQUES FOR THE THEATRE DESIGNER I
Introduces the mechanics of handling black and white media to develop three-dimensional technique with an emphasis on observational training and object drawing.
3 hrs

THEATRE 432  COSTUME DESIGN
The practice of the theatrical costume design, leading to the preparation of designs for production, and the execution of designs in actual costuming for the stage.
3 hrs

THEATRE 437  PLAYWRITING I
Theory and practice of writing for the theatre with emphasis on the basic techniques.
3 hrs

THEATRE 438  PLAYWRITING II
Theory and practice of writing for the theatre with emphasis on advanced techniques.
3 hrs

THEATRE 476  THEATRE SOUND AND ELECTRONICS
Study of electronic principles used in audio and control devices. Concentrates on applying knowledge to using the equipment employed in the theater such as sound-effect systems, intercommunication equipment, and includes a special section on the creation of sound and music for theatre productions.
3 hrs

THEATRE 478  STAGE MANAGEMENT II
Practicum course in stage management. Requires stage management of a University production and/or assistant stage management of an MRT production and/or assistant stage management of a main stage University production. Prerequisite: THEATRE 378 or consent of instructor. Fall/ winter/summer.
2 hrs

THEATRE 489  SEMINAR IN PROFESSIONAL THEATRE
This course shall be conducted by a visiting artist who is in residence with either Missouri Repertory Theatre or the academic theater. Both student work and the work of the visitor shall be analyzed and criticized in this semester. Fall.
1 hr

THEATRE 497  REPERTORY THEATRE
Apprentice-level responsibilities for THEATRE 497 are as follows: apprentices will be used in as many production areas as possible: (1) as actors in small roles and/or extras or supers; (2) as understudies if possible; (3) as needed in the following departments: (a) properties; (b) carpentry and the shop; (c) lighting; (d) costumes; (e) house management; (f) stage management; (g) running crews. Prerequisite: Selection for apprenticeship by departmental chairman. Each semester.
3-6 hrs

URBAN PLANNING AND DESIGN

UPD 101  INTRODUCTION TO URBAN STUDIES
This lecture and discussion course provides the undergraduate student with an overview of the interdisciplinary field of urban social science. The student who successfully completes this course will have a broad understanding of the major issues, vocabulary, basic methods, and prominent scholars in urban studies. We will also explore current events of relevance, including the opportunities and problems facing major cities in the United States including Kansas City. Also cross listed as URBAN ST 101. Offered: Fall
3 hrs

UPD 203  GIS FOR URBAN PLANNING
This introductory level GIS course is designed to expose planning students to Geographical Information Systems (GIS). Students will learn basic concepts and theories of GIS and applications of GIS software with hands-on experience. Students will also learn how to search for demographic, socio-economic, land use, transportation, and geospatial data, and how to use such data for their academic research and professional planning work with GIS. Students will apply GIS to the multiple scales of planning work. Offered: Fall
3 hrs

UPD 260  HISTORY OF PLANNING AND URBAN DESIGN
An overview of planning history with an emphasis on the 19th and 20th centuries. The historic framework will include urban history, the rise and development of urban planning, urban design, and social theory and how these areas have affected the shape of our cities. Offered: Fall
3 hrs

UPD 280  LAND USE PLANNING
This course explores the basic principles of planning and regulation. Students are introduced to contemporary planning and policy issues, including land use conflicts and alternative models for sustainable planning and management. Students will learn how to develop a land use plan using Geographic Information Systems (GIS) and other design tools. An introductory GIS course (UPD 203) is highly recommended. Offered Spring
3 hrs
UPD 300 QUANTITATIVE PLANNING METHODS AND TECHNIQUES
Statistical analysis and other analytic techniques of data gathering. Data and problems framed from complex, real world situations. Competence in first-hand research; survey design; case study method; data gathering methods such as observation, open-ended interviewing and questionnaires. Offered: Fall

3 hrs

UPD 310 PLANNING AND DESIGN STUDIO I
The urban planning and design studio will introduce to the student a methodology of designing urban spaces. Students will actively participate in problem solving and determine the physical shaping of communities and cities, while developing abilities in graphic methods of communication and Presentation. The application of principles of urban design, social, political, cultural, economic and environmental considerations will help inform solutions. Students will have the opportunity to work interactively with a wide spectrum of professionals, neighborhood leaders, and political entities in developing strategies for solutions to real urban situations. Students are asked to supply their own computer for the course. Students should consult with the department before purchasing the computer. Prerequisite: ENV-DSN 201, ENV-DSN 202 Offered: Fall Restrictions: Consent of Department

4 hrs

UPD 312 PLANNING & DESIGN STUDIO II
This course integrates material from Quantitative Methods in Urban Planning. Instruction in urban planning and design focusing on the synthesis of land use analyses, regulatory reviews, urban design issues, and public participation facilitation. Continued instruction in techniques for visually presenting planning and design ideas. Prerequisite(s) UPD 310, UPD 300 Offered: Winter Restrictions: Consent of Dept. of Architecture, Urban Planning & Design

4 hrs

UPD 320 PLANNING THEORY
This course examines contemporary urban planning and design practice. Theories about planning practice and related case studies will be the basis of this course. Topics covered will include the definition of urban planning, the idea of the “public realm,” planning/design expertise and the rational model, the role of diversity, public participation, communicative planning, advocacy and equity planning, ethics comprehensiveness and the limits of planning. The course is writing intensive and will include assignments that will build student’s ability to write quick and analytical assessments, often required in planning practice. Students will be required to attend public planning forums in and around the region. Offered: Winter

3 hrs

UPD 340 NEIGHBORHOOD AND COMMUNITY DEVELOPMENT
Course provides a comprehensive introduction to the field of community development and neighborhood planning. The development of theoretical models that explain neighborhood change and history in the U.S. will serve as the basis. Issues explored include: community organizing, social movements, federal and state policies, and the role of planning organizations and community development corporations in neighborhood revitalization. Offered Fall

3 hrs

UPD 400 ADVANCED GIS FOR URBAN PLANNING
This advanced level GIS course is designed to expose students to high level GIS techniques and geospatial analyses in urban planning. Students will learn advanced theories and geographic information tools with hands-on experiences. Students will have an opportunity to apply their knowledge and skills in GIS to a real world planning project in class. Offered Spring

3 hrs

UPD 401 PORTFOLIO AND RESUME DEVELOPMENT
This class focuses on the development of portfolios necessary for professional advancement in the design fields. Students examine the various types of resumes and portfolios that can be used in different employment situations. Student will be exposed to the many design decisions that must be made when developing a resume and portfolio. Offered Spring

1 hr

UPD 410 PLANNING & DESIGN STUDIO III
Instruction in problem analysis and plan development for defined urban or suburban location with multiple constituencies. Prerequisites: UPD 312 and not more than one grade of D in a UPD studio course. Restrictions: Permission of Department. Offered: Fall

4 hrs

UPD 411 PROFESSIONAL PRACTICE I
This course prepares students for professional practice in planning and design. Issues to be addressed in the seminar include mediation, public meeting facilitation methods and presentation skills. Students engage in writing assignments addressing urban plans and designs concurrent with their work in UPD 410. Offered Fall

1 hr

UPD 412 WI PLANNING AND DESIGN STUDIO IV
Capstone course that incorporates a topical plan or a comprehensive plan for a client comprising a development subdivision, a community or a redevelopment area. Prerequisites: UPD 410 and not more than one grade of D in a UPD studio course. Offered: Spring

5 hrs

UPD 413 PROFESSIONAL PRACTICE II
A continuation of professional practice seminar addressing issues of Urban Planning and Design practice including different career options in the public, private, and the nonprofit sectors. The course will chart a path of successful post graduation professional development. Restrictions: Concurrent enrollment in UPD 412WI. Offered Spring

1 hr

UPD 420 TRANSPORTATION PLANNING
The course provides fundamental theories, methods, and contemporary issues in transportation planning. The topics covered in this course include the transportation planning process, transportation systems, travel demand analysis, and policy issues such as the linkage between land use and transportation, urban transportation finance, social and environmental justice, transportation and environmental impacts, and traffic congestion. Offered Fall

3 hrs

UPD 430 PLANNING FOR HISTORIC PRESERVATION
The course provides a survey of major issues in the field of historic preservation and heritage studies from a planning perspective. Will focus primarily on the built environment of the United States, as well as world heritage sites and international perspectives. The course will include the urban planning techniques used for preserving historic buildings, neighborhood and districts, as well as some of the landmark legal decisions and legislation that have shaped heritage preservation practice in the U.S. Prerequisite: UPD 260 Offered: Fall 2005
UPD 432  URBAN ENVIRONMENT PLANNING AND DESIGN
The built environment does not exist in a vacuum. Cities operate within broad ecological processes. Effective environmental planning can protect important natural resources while providing for a higher quality of life for urban residents. As a survey course in a subfield of urban planning, this course introduces students to environment planning approaches and techniques. Prerequisites: UPD Urban Planning Theory and Practice recommended. Offered: Spring

3 hrs

UPD 440  NEW URBANISM
This course will focus on all the components of the New Urbanism-from the region to the block and the building. It will give a detailed analysis of the history and techniques of NU, and the current state of the practice. The course will be a combination of lecture and field work, as students will be asked to participate in exercises that will deepen their understanding of the built environment.

3 hrs

UPD 450  PLANNING LAW & PRACTICE
Introduction to legal procedures basic to urban planning, including legal, constitutional, legislative, and administrative concepts, controls, and land-use regulations. Offered Fall

3 hrs

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

3 hrs

UPD 490  URBAN PLANNING INTERNSHIP
Work experience off-campus with an approved professional, Government, or non-profit agency sponsor. A contract specifying the expected product of the internship is required between the student, agency and faculty coordinator. Prerequisites: UPD 310 Urban Planning Studio I, UPD 312 Urban Planning Studio II, GEOG 401 GIS Mapping. Restrictions: Consent of the Department.

3 hrs

UPD 496  DIRECTED STUDIES IN URBAN PLANNING
Intensive reading and/or research in an area selected by the student in consultation with the instructor. Prerequisites: UPD 260, UPD 270 and UPD 300 Offered: On Demand Restrictions: Permission of instructor Offered Fall and Spring

1-3 hrs

UPD 499  SPECIAL TOPICS IN URBAN PLANNING
Advanced independent research and analysis in urban planning. Topics and methods used in research, to be established by student and academic supervisor prior to enrollment. Offered: Every semester Restrictions: Permission of instructor

1-3 hrs

UPD 499 D SPECIAL TOPICS IN URBAN PLANNING
Advanced independent research and analysis in urban planning. Topics and methods used in research, to be established by student and academic supervisor prior to enrollment. Offered: Every semester Restrictions: Permission of instructor

1-3 hrs

UPD 499 E SPECIAL TOPICS IN URBAN PLANNING
Advanced independent research and analysis in urban planning. Topics and methods used in research, to be established by student and academic supervisor prior to enrollment. Offered: Every semester Restrictions: Permission of instructor

1-3 hrs

UPD 499 F SPECIAL TOPICS IN URBAN PLANNING
Advanced independent research and analysis in urban planning. Topics and methods used in research, to be established by student and academic supervisor prior to enrollment. Offered: Every semester Restrictions: Permission of instructor

1-3 hrs

URBAN STUDIES

URBAN ST 100  NEIGHBORHOOD AND COMMUNITY DEVELOPMENT
Course provides a comprehensive introduction to the field of community development and neighborhood planning. The development of theoretical models that explain neighborhood change and history in the United States will serve as the basis. Issues explored include: Community organizing, social movements, federal and state policies, and the role of planning organizations and community development corporations in neighborhood revitalization. Also cross listed as UPD 340

3 hrs

URBAN ST 101  INTRODUCTION TO URBAN STUDIES
Introduction to Urban Studies is a lecture and discussion course that provides the undergraduate student with an overview of the interdisciplinary field of urban social science. The Student who successfully completes this course will have a broad understanding of the major issues, vocabulary, basic methods, and prominent scholars in urban studies. We will also explore current events of relevance, including the opportunities and problems facing major cities in the United States including Kansas City. Also cross listed as UPD 101.

3 hrs

URBAN ST 340  NEIGHBORHOOD AND COMMUNITY DEVELOPMENT
Course provides a comprehensive introduction to the field of community development and neighborhood planning. The development of theoretical models that explain neighborhood change and history in the U.S. will serve as the basis. Issues explored include: Community organizing, social movements, federal and state policies, and the role of planning organizations and community development corporations in neighborhood revitalization. Prerequisite: none

3 hrs
URBAN ST 495  URBAN STUDIES INTERNSHIP
Students obtain directed practical experience working with non-profits, governments, or private enterprises. Duties will vary based on contractual agreement between the student, host organization, and the professor. Students should have junior standing or higher and the instructor's permission. Prerequisite: Permission of the instructor. Offered: Summer, Fall, or Winter as available.
1-6 hrs

URBAN ST 499 WI  URBAN STUDIES SEMINAR
This is the capstone course in the Urban Studies Program and is required for majors in the junior/senior year. Students critique urban research and prepare a paper and an oral presentation on an approved topic.
3 hrs

WOMEN'S AND GENDER STUDIES
WGS 201  INTRODUCTION TO WOMEN'S STUDIES
This course will explore the lives of women from an interdisciplinary perspective. Each time this course is taught it will draw upon the disciplinary expertise of the course instructors. Offered: Every semester.
3 hrs

WGS 405  SPECIAL TOPICS IN WOMEN'S AND GENDER STUDIES
Each time this course is offered a different area of Women's and Gender Studies will be covered. This course may be repeated for credit when the topic changes. Offered: Every Semester
1-3 hrs

WGS 499  WOMEN'S AND GENDER STUDIES: SENIOR SEMINAR
This capstone course focuses on research leading to a term paper on a Women's and Gender Studies Topic. Offered: Every semester
3 hrs

WORLD LITERATURE
WLD-LIT 210  FOUNDATIONS OF WORLD LITERATURE I
An investigation of the great ideas that inspired humankind in different cultures through the ages. These ideas will be explored as they are expressed in literature. Literary works of different ages and different cultures are included. On Demand. Also offered as CLASSICS 210.
3 hrs

School of Biological Sciences

SCHOOL OF BIOLOGICAL SCIENCES COURSES BIOLOGY (BIOL)

BIOLOGY 102  BIOLOGY AND LIVING
Introduction to structural organization and functional processes of living systems. Three hours lecture a week. For non-biology majors only. Does not count toward biology degree.
3 hrs

BIOLOGY 102 L  BIOLOGY AND LIVING LABORATORY
Exploration of basic biological concepts through laboratory activities requiring data collection and analysis. Four hours laboratory per week. For non-majors only; does not count toward Biology degree requirements. Prerequisite: BIOLOGY 102 or concurrent.
1 hr

BIOLOGY 108  GENERAL BIOLOGY I
Basic studies in Biology emphasizing the unity and diversity of life. Cellular structure, function, heredity, development, ecology and evolution will be discussed. Three hours lecture per week. Prerequisite(s): High School Biology and Chemistry background highly recommended.
3 hrs

BIOLOGY 108 L  GENERAL BIOLOGY I LABORATORY
Basic laboratory studies in Biology emphasizing the unity and diversity of life. Structure, function, heredity, development, ecology and evolution will be explored. Three hours laboratory per week. Prerequisites or corequisite: BIOLOGY 108
1 hr

BIOLOGY 109  GENERAL BIOLOGY II
Basic studies in Biology emphasizing the unity and diversity of life. Structure, function, heredity, development, regulation of growth and evolution will be discussed. Three hours lecture per week. Prerequisite(s): High School Biology and Chemistry background highly recommended.
3 hrs

BIOLOGY 109 L  GENERAL BIOLOGY II LABORATORY
Basic laboratory studies in Biology emphasizing the unity and diversity of life. Structure, function, heredity, development, regulation of growth and evolution will be explored. Three hours laboratory per week. Prerequisites or corequisite: BIOLOGY 109
1 hr

BIOLOGY 202  CELL BIOLOGY
Basic concepts of cellular and subcellular structure and function, including supramolecular and organelle structure and organization, bioenergetics, cell growth and cellular communication. Three lectures per week. Prerequisites: BIOLOGY 108, BIOLOGY 109, and CHEM 212, or LS-ANATO 119/119L, LS-MCRB 121 and CHEM 212, OR consent of SBS advisor.
3 hrs
BIOLOGY 203  ESSENTIAL CELL BIOLOGY
Foundations of cellular functions. Serves as a bridge between biochemistry and cell and organ physiology for dental students. Applications of fundamental principles to the physiology and pathology of the oral tissues will be stressed.

3 hrs
BIOLOGY 206  GENETICS
A modern approach integrating molecular and organismal studies of the general genetics of lower and higher organisms. Chromosomal structure and function, gene transmission, heredity, plasticity and population genetics will be discussed. Three hours lecture per week. Prerequisites: BIOLOGY 108, BIOLOGY 109, CHEM 212.

3 hrs
BIOLOGY 302  GENERAL ECOLOGY
Introduction to the study of populations, communities, and ecosystems by examining the interrelationships between living organisms and their environments. The role of natural selection and evolution will also be considered. Three hours lecture per week. Prerequisites: BIOLOGY 108, BIOLOGY 109, or BIOLOGY 102.

3 hrs
BIOLOGY 303  INVERTEBRATE ZOOLOGY
Taxonomy, evolutionary relationships, behavior, reproduction, morphology and ecology of the invertebrates. Three hours lecture a week. Prerequisites: BIOLOGY 108 & BIOLOGY 109, CHEM 212

3 hrs
BIOLOGY 305  MARINE AND FRESHWATER BIOLOGY
Introduction to the study of marine ecology, deep-sea biology, oceanic nekton, inter-tidal ecology, estuaries, mangroves and salt marshes, as well as ecology of rivers, lakes, streams, wetlands and human impact on aquatic habitats. Three hours lecture per week. Prerequisites: BIOLOGY 108 & BIOLOGY 109, CHEM 211.

3 hrs
BIOLOGY 308  VERTEBRATE ZOOLOGY
Taxonomy, evolutionary relationships, behavior, reproduction, morphology and ecology of the vertebrates. Three hours lecture a week. Prerequisites: BIOLOGY 108 & BIOLOGY 109, CHEM 212

3 hrs
BIOLOGY 312 WL  LABORATORY IN DEVELOPMENTAL BIOLOGY, GENETICS AND CELL BIOLOGY
Experimental studies of genetics and development in selected eukaryotic model organisms with an emphasis on the molecular and cellular mechanism of inheritance. Six hours lab and one hour lecture per week. Designation: Writing Intensive. Prerequisites: LS-BIOC 341, BIOLOGY 409 corequisite.

3 hrs
BIOLOGY 314  ENTOMOLOGY
Anatomy, physiology and identification of insects with emphasis on their environmental adaptations. Three hours lecture per week. Prerequisite: BIOLOGY 109 or LS-ANATO 119.

3 hrs
BIOLOGY 322  GENERAL PARASITOLOGY
Parasitic protozoa, worms and arthropods and the disease states they may induce, will be examined in relationship to human, animal and plants hosts. Three hours lecture per week. Prerequisite(s): BIOLOGY 109 OR LS-ANATD 119. Offered: Summer

3 hrs
BIOLOGY 326  BIOLOGICAL CONSERVATION
Applications of ecology and genetics to the conservation of communities and individual species, including discussion of the Endangered Species Act extinction processes, and the effects of habitat fragmentation. Prerequisites: BIOLOGY 302 recommended: BIOLOGY 108 & BIOLOGY 109 required

2 hrs
BIOLOGY 327  BIOGEOGRAPHY AND BIODIVERSITY
Evolutionary and climatological effects on the geographic distribution of organisms, including areas of endemism as well as preservation of biodiversity. Prerequisite(s): BIOLOGY 108 & BIOLOGY 109. Offered: Summer

2 hrs
BIOLOGY 328  HISTOLOGY
Animal tissues and their specialization in the organism, with major emphasis on higher organisms. Two hours lecture per week. Prerequisite(s): BIOLOGY 109 or BIOLOGY 118, BIOLOGY 202, CHEM 212.

2 hrs
BIOLOGY 328 L  LABORATORY IN HISTOLOGY AND CELLULAR ULTRASTRUCTURE
Examination of structure/function relationships at the subcellular, cellular and organ levels. Both plants and animals will be examined with emphasis on vertebrates. Five hours lab per week. Prerequisite: BIOLOGY 201, CHEM 212, (corequisite) BIOLOGY 328, consent of SBS Adviser. Offered: Winter

3 hrs
BIOLOGY 328 WL  LABORATORY IN HISTOLOGY AND CELLULAR ULTRASTRUCTURE
Examination of structure/function relationships at the subcellular, cellular and organ levels. Both plants and animals will be examined with emphasis on vertebrates. Four hours lab per week. Designation: Writing Intensive. Prerequisites: BIOLOGY 202, CHEM 212, (co-requisite) BIOLOGY 328, consent of SBS advisor.
**BIOLOGY 329  **  **ENDOCRINOLOGY**
Endocrine regulation and control of growth, development, homeostasis, and reproduction. Includes study of the endocrine organs, their products, and mechanisms of action. Two hours of lecture per week. Prerequisite: BIOLOGY 202 (Physiology background recommended.)

**2 hrs**

**BIOLOGY 331  **  **REPRODUCTIVE BIOLOGY**
Comprehensive overview of current concepts and knowledge regarding male and female reproductive processes, from gametogenesis through early placentation. Includes structural, developmental, physiological and pathophysiological aspects of reproduction. Two hours of lecture per week. Prerequisite: Recommended LS-ANATO 118, LS-ANATO 119, LS-PHYSICS 117 LS-PHYSICS 316, BIOLOGY 202 and/or BIOLOGY 329. Offered: Summer

**2 hrs**

**BIOLOGY 344  **  **BIOORGANIC STRUCTURE AND BIOMOLECULAR FUNCTION**
An introduction to chemical and physical properties of complex biological macromolecules and their functions in living cells. Nomenclature, functional groups, reactions and stereochemistry are among the topics to be emphasized. Prerequisites: BIOLOGY 109 and CHEM 320, CHEM 322. Offered (semester): Winter.

**3 hrs**

**BIOLOGY 346  **  **PLANT BIOLOGY**
An integrated study of growth, development, and reproduction of plants, including structure and function of plant tissues and organs, as well as a survey of the recent advances in genetic engineering, plant defense mechanisms, and medical botany and the usefulness of plants to humans. Three hours lecture per week. Prerequisites or corequisite: BIOLOGY 202

**3 hrs**

**BIOLOGY 348  **  **PLANT PHYSIOLOGY**
A study of the biochemical and physical processes involved in plant function at the molecular and cellular level and the mechanisms by which plants respond to environmental challenges. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206 AND LS-BIOC 341

**3 hrs**

**BIOLOGY 349  **  **DEVELOPMENTAL BIOLOGY**
Principles of development and differentiation of structure during embryology in animals. Molecular, cellular and organismal level concepts and mechanisms will be considered. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206.

**3 hrs**

**BIOLOGY 405  **  **INTRODUCTION TO EVOLUTION**
Discussion of the biological processes that produce organic diversity through phyletic change, including variation, mutation, adaptation, population genetics, natural selection, genetic drift, gene flow, and macroevolution. Prerequisite: BIOLOGY 206.

**3 hrs**

**BIOLOGY 409  **  **DEVELOPMENTAL BIOLOGY**
Principles of development and differentiation of structure during embryology in animals. Molecular, cellular and organismal level concepts and mechanisms will be considered. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206.

**3 hrs**

**BIOLOGY 427  **  **PLANT PHYSIOLOGY**
A study of the biochemical and physical processes involved in plant function at the molecular and cellular level and the mechanisms by which plants respond to environmental challenges. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206 AND LS-BIOC 341

**3 hrs**

**BIOLOGY 442  **  **NEUROBIOLOGY**
Neurobiology will consist of the presentation of theory and data concerning cellular and molecular fundamentals of the nervous system, synaptic mechanisms, sensory-motor systems, and higher-order functions of the nervous system. Three hours lecture per week. Prerequisite: LS-PHYSICS 316, LS-MCRB 341, or permission of instructor.

**3 hrs**

**BIOLOGY 498 WI  **  **CRITICAL ANALYSIS OF BIOLOGICAL ISSUES**
Reading and Analysis of scientific literature, including original papers, on a topic of broad biological interest. Critical discussion of experimental methods and results. Writing of scientific reviews and a term paper. Taking the MFAT test is a requirement of this course, and the course satisfies the general education synthesis requirement. Three hours per week of lecture and literature research. Prerequisite(s): CHEM 320 or CHEM 322, completion of core requirements, consent of SBS adviser. Designation: Writing Intensive.

**3 hrs**

**BIOLOGY 498 WI  **  **CRITICAL ANALYSIS OF BIOLOGICAL ISSUES**
Reading and Analysis of scientific literature, including original papers, on a topic of broad biological interest. Critical discussion of experimental methods and results. Writing of scientific reviews and a term paper. Taking the MFAT test is a requirement of this course, and the course satisfies the general education synthesis requirement. Three hours per week of lecture and literature research. Prerequisite(s): CHEM 320 or CHEM 322, completion of core requirements, consent of SBS adviser. Designation: Writing Intensive.

**3 hrs**

**LIFE SCIENCES (LS)  **

**LIFE-SCI 399  **  **INTRODUCTION TO RESEARCH**
Introduction to the theory and practice of research in modern biological sciences. Consent of full-time regular SBS doctoral faculty member and undergraduate programs office required. Requires minimum of 3-4 hours per week in the laboratory for each credit hour. Prerequisites: BIOLOGY 108, BIOLOGY 109, CHEM 212, 3.0 Science GPA. Semester offered: Every semester

**1-3 hrs**

**LIFE-SCI 401  **  **BIOPHYSICAL PRINCIPLES**
Fundamental biophysical concepts and their application to the study of biological molecules, particularly macromolecules and supramolecular structures. Includes discussion of thermodynamics, kinetics, and spectroscopy. Prerequisites: PHYSICS 240 OR 210, MATH 210 AND LS-BIOC 341 Offered: Fall Semesters

**3 hrs**

**LIFE-SCI 438  **  **MOLECULAR RECOGNITION IN CELLULAR BIOLOGY**
Studies the latest development leading to an increased understanding of cellular biology processes when the experimental tools of structural biology analysis and molecular genetics are applied. Prerequisites: BIOLOGY 108 & BIOLOGY 109, BIOLOGY 360, BIOLOGY 202 & BIOLOGY 206. Offered: Fall

**2 hrs**
LIFE-SCI 490 WI  SENIOR SEMINAR
Discussion, writing and specific readings to coordinate with and amplify topics covered in School of Biological Sciences seminars; must include a term paper on a specific topic. Designation: Writing Intensive. Prerequisite(s): Completion of core requirements, consent of SBS adviser.

3 hrs

LIFE-SCI 497 A  SPECIAL TOPICS-BIOINFORMATICS
Individual or small group study of topics in the area of bioinformatics including classroom work, presentation, library work, and writing of term papers or other reports. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements. Prerequisite(s): Completion of Biology degree core requirements; a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Advisor. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

1-3 hrs

LIFE-SCI 497 B  SPECIAL TOPICS-GENETICS
Individual or small group study of topics in the area of genetics including classroom work, presentation, library work, and writing of term papers or other reports. Prerequisite: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member, and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

1-3 hrs

LIFE-SCI 497 C  SPECIAL TOPICS-MICROBIOLOGY
Individual or small group study of topics in the area of microbiology including classroom work, presentation, library work, and writing of term papers or other reports. Prerequisite: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member, and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

1-3 hrs

LIFE-SCI 497 D  SPECIAL TOPICS-PHYSIOLOGY
Individual or small group study of topics in the area of physiology including classroom work, presentation, library work, and writing of term papers or other reports. Prerequisite: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member, and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

1-3 hrs

LIFE-SCI 497 E  SPECIAL TOPICS - BIOCHEMISTRY
Individual or small group study of topics in the area of biochemistry including classroom work, presentation, library work, and writing of term papers or other reports. Prerequisite: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member, and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

1-3 hrs

LIFE-SCI 497 F  SPECIAL TOPICS - BIOPHYSICS
Individual or small group study of topics in the area of biophysics including classroom work, presentation, library work, and writing of term papers or other reports. Prerequisite: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member, and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

1-3 hrs

LIFE-SCI 497 G  SPECIAL TOPICS-CELL BIOLOGY
Individual or small group study of topics in the area of cell biology including classroom work, presentation, library work, and writing of term papers or other reports. Prerequisite: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member, and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

1-3 hrs

LIFE-SCI 497 H  SPECIAL TOPICS: NEUROSCIENCE
Individual or small group study of topics in the area of neuroscience including classroom work, presentation, library work, and writing of term papers or other reports. Prerequisites: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member, and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

1-3 hrs

LIFE-SCI 497 I  SPECIAL TOPICS-BOTANY
Individual or small group study of topics in the area of botany including classroom work, presentation, library work, and writing of term papers or other reports. Prerequisites: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member, and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

1-3 hrs

LIFE-SCI 497 J  SPECIAL TOPICS-ZOOLOGY
Individual or small group study of topics in the area of zoology including classroom work, presentation, library work, and writing of term papers or other reports. Prerequisites: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member, and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

1-3 hrs

LIFE-SCI 497 K  SPECIAL TOPICS-ECOLOGY
Individual or small group study of topics in the area of ecology including classroom work, presentation, library work, and writing of term papers or other reports. Prerequisites: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member, and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.

1-3 hrs
LIFE-SCI 497 L  UNDERGRADUATE RESEARCH-ZOOLOGY
Individual or small group study of topics in the area of biological sciences including class room work, presentation, library work, and writing of term papers or other reports. Prerequisites: Completion of Biology degree core requirements, a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.
1-3 hrs

LIFE-SCI 497 P  UNDERGRADUATE RESEARCH-BOTANY
Individual or small group study of topics in the area of botany including class room work, presentation, library work, and writing of term papers or other reports. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements. Prerequisite(s): Completion of Biology degree core requirements; a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser. Offered: Fall, Winter, Summer
1-3 hrs

LIFE-SCI 499 A  UNDERGRADUATE RESEARCH-BIOINFORMATICS
Independent research, including the writing of research reports in the area of bioinformatics. Combined credit for LS 497 and 499 may not exceed 4 credit hours towards biology course degree requirements. Prerequisite(s): Completion of Biology degree core requirements; a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser.
1-3 hrs

LIFE-SCI 499 B  UNDERGRADUATE RESEARCH-GENETICS
Independent research, including the writing of research reports in the area of genetics. Prerequisites: Completion of Biology degree core requirements; minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.
1-3 hrs

LIFE-SCI 499 C  UNDERGRADUATE RESEARCH-MICROBIOLOGY
Independent research, including the writing of research reports in the area of microbiology. Prerequisites: Completion of Biology degree core requirements; minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.
1-3 hrs

LIFE-SCI 499 D  UNDERGRADUATE RESEARCH-PHYSIOLOGY
Independent research, including the writing of research reports in the area of physiology. Prerequisites: Completion of Biology degree core requirements; minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.
1-3 hrs

LIFE-SCI 499 E  UNDERGRADUATE RESEARCH-BIOCHEMISTRY
Independent research, including the writing of research reports in the area of biochemistry. Prerequisites: Completion of Biology degree core requirements; minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LS 497 and 499 may not exceed 4 credit hours towards biology course degree requirements.
1-3 hrs

LIFE-SCI 499 F  UNDERGRADUATE RESEARCH-BIOPHYSICS
Independent research, including the writing of research reports in the area of biophysics. Prerequisites: Completion of Biology degree core requirements; minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.
1-3 hrs

LIFE-SCI 499 G  UNDERGRADUATE RESEARCH-CELL BIOLOGY
Independent research, including the writing of research reports in the area of cell biology. Prerequisites: Completion of Biology degree core requirements; minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.
1-3 hrs

LIFE-SCI 499 H  UNDERGRADUATE RESEARCH-NEUROSCIENCE
Independent research, including writing of research reports in the area of neuroscience. Prerequisites: Completion of Biology degree core requirements; minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.
1-3 hrs

LIFE-SCI 499 I  UNDERGRADUATE RESEARCH-BOTANY
Independent research, including the writing of research reports in the area of botany. Prerequisites: Completion of Biology degree core requirements; minimum GPA of 3.0, consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.
1-3 hrs

LIFE-SCI 499 J  UNDERGRADUATE RESEARCH-ZOOLOGY
Independent research, including the writing of research reports in the area of zoology. Prerequisites: Completion of Biology degree core requirements; minimum GPA of 3.0, consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.
1-3 hrs

LIFE-SCI 499 K  UNDERGRADUATE RESEARCH-ECOLOGY
Individual or small group study of topics in the area of biotechnology including classroom work, presentation, library work, and writing of term papers or other reports. Prerequisites: Completion of Biology degree core requirements; a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 courses may not exceed 4 credit hours towards Biology course degree requirements.
1-3 hrs
Independent research, including the writing of research reports in the area of ecology. Prerequisites: Completion of Biology degree core requirements, minimum GPA of 3.0, consent of faculty member; permission from a School of Biological Sciences Undergraduate Adviser. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.

1-3 hrs

LIFE-SCI 499 L  UNDERGRADUATE RESEARCH—BIOLOGICAL SCIENCES
Independent research, including the writing of research reports in the area of biological sciences. Prerequisites: Completion of Biology degree core requirements, minimum GPA of 3.0; consent of faculty member; permission from a School of Biological Sciences Undergraduate Advisor. Combined credit for LIFE-SCI 497 and LIFE-SCI 499 may not exceed 4 credit hours towards biology course degree requirements.

1-3 hrs

LIFE-SCI 499 M  UNDERGRADUATE RESEARCH—BIOLOGICAL SCIENCES HONORS
Independent research, including the writing of research reports in the area of biological sciences. Prerequisites: Consent of SBS adviser required.

1-3 hrs

LIFE-SCI 499 P  UNDERGRADUATE RESEARCH—BIOTECHNOLOGY
Independent research, including the writing of research reports in the area of biotechnology. Combined credit for LS 497 and 499 may not exceed 4 credit hours towards biology course degree requirements. Prerequisite(s): Completion of Biology degree core requirements a minimum GPA of 3.0; consent of an appropriate faculty member; and permission from a School of Biological Sciences Undergraduate Advisor. Offered: Fall, Winter, Summer

1-3 hrs

LIFE-SCI H490 WI  HONORS SENIOR SEMINAR
Discussion, writing and specific readings to coordinate with and amplify topics covered in School of Biological Sciences seminars; must include a term paper on a specific topic. Designation: Writing Intensive. Prerequisite(s): Completion of core requirements, consent of SBS adviser.

3 hrs

**LIFE SCIENCES – ANATOMY (LSANAT)**

**LS-ANATO 118  INTRODUCTORY ANATOMY**
Description and discussion of the cells, organs, organ systems and basic tissues of vertebrates with special emphasis on their interrelationships in functional anatomy. Three hours lecture per week.

3 hrs

**LS-ANATO 118 L  INTRODUCTORY ANATOMY LABORATORY**
Laboratory investigation of cells, tissues, and organs with special emphasis on their interrelationship in vertebrates. One hour recitation and three hours lab per week. Pre/co-requisite: LS ANAT 118

2 hrs

**LS-ANATO 119  FUNCTIONAL ANATOMY I**
An introduction to the functional anatomy of vertebrates with emphasis on organs, organ systems and tissues. Three hours lecture per week.

3 hrs

**LS-ANATO 119 L  FUNCTIONAL ANATOMY I LABORATORY**
An introduction to the functional anatomy of vertebrates with emphasis on organs, organ systems and tissues. Three hours recitation per week.

1 hr

**LIFE SCIENCES – BIOCHEMISTRY (LSBIOC)**

**LS-BIOC 304  BIOCHEMISTRY AND NUTRITION**
The chemistry of the structures and processes of the human body in their normal condition with special consideration of the chemical aspects of disease of the oral structure. A presentation of the basic principles of nutrition.

4 hrs

**LS-BIOC 3120  BIOCHEMISTRY AND NUTRITION**
The fundamentals of biochemistry and the nutritional implications as they relate to source and utilization of essential nutrients.

3 hrs

**LS-BIOC 3240  APPLIED NUTRITION**
Students will discuss life cycle nutrition as it relates to preventive dentistry and total health. Nutritional factors from infancy to old age are discussed, including diet and nutrition for special patients such as expectant mothers, diabetics, patients with heart disease, fracture patients, institutionalized patients, etc. Students will provide nutritional counseling to healthy patients and special patients within the framework of the course. Principles will be utilized in later clinical courses and practicums.

3 hrs

**LS-BIOC 341  BASIC BIOCHEMISTRY**
One semester course covering the properties of organic compounds important to biological systems. Structures, characterization and reactions of common compounds and their relationship to the building blocks of biological systems will be discussed. Three hours lecture per week. Prerequisites: BIOLOGY 202, and CHEM 320, or CHEM 322.

3 hrs

**LS-BIOC 360  BIOCHEMISTRY**
Introduction to modern biochemistry. Structure and function of biologically important compounds, major biochemical pathways and their regulation in animals, plants and microorganisms, and the molecular and biochemical basis of gene function will be studied. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206, LS-BIOC 341, and CHEM 320 or CHEM 322.
LS-BIOC 360 L  LABORATORY IN BIOCHEMISTRY AND MOLECULAR BIOLOGY
Laboratory studies in biochemistry and molecular biology with an emphasis on modern techniques and quantitative relationships. Written consent of the instructor required. Prerequisites: LS-BIOC 360, MATH 220 and a 3.0 science GPA.

3 hrs

LS-BIOC 360 WL  LABORATORY IN BIOCHEMISTRY AND MOLECULAR BIOLOGY
Laboratory studies in biochemistry and molecular Biology with an emphasis on modern techniques and quantitative relationships. Written consent of the instructor required. Designation: Writing Intensive. Prerequisite(s): LS-BIOC 341.

3 hrs

LS-BIOC 365  HUMAN BIOCHEMISTRY I
The basic principles of human biochemistry for pharmacy students presented in a two-term integrated unit. Topics will include the chemistry and mechanisms involved in biosynthesis, degradations and utilization of the major constituents of living systems and the biochemistry of specialized tissues, hormones, nutrition and regulation. Restricted to students in the School of Pharmacy. Prerequisites: BIOLOGY 202 (pre or corequisite) and CHEM 320 or CHEM 322R.

3 hrs

LS-BIOC 366  HUMAN BIOCHEMISTRY II
The basic principles of human biochemistry for pharmacy students and other undergraduates presented in a two-term integrated unit. Topics will include the chemistry and mechanisms involved in biosynthesis, degradation and utilization of the major constituents of living systems and the biochemistry of specialized tissues, hormones, nutrition and regulation. Restricted to students in the School of Pharmacy. Prerequisite: LS-BIOC 365G

3 hrs

LS-BIOC 425  BIOINFORMATICS
Study of the acquisition, storage, retrieval, analysis, modeling, and distribution of information in biomolecular databases. Recent developments in genomics and proteomics and how these databases are used in modern biological research will be emphasized. Prerequisites: LS-BIOC 341 or permission of instructor

3 hrs

LS-BIOC 430  MOLECULAR BIOLOGY AND GENETIC ENGINEERING
Molecular aspects of gene structure and function, including macromolecular synthesis, gene regulation, genetic transfer and biotechnology will be discussed in prokaryotes and eukaryotes. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206, and LS-BIOC 341.

3 hrs

LIFE SCIENCES - MICROBIOLOGY (LSMCRB)

LS-MCRB 112  MICROBIOLOGY AND LIVING
Lectures and demonstrations concerning the cell structure, genetics and physiology of microorganisms and the role microorganisms play in the world around man with an emphasis on medical and clinical aspects of the significance of various groups of bacteria, viruses fungi and other microorganisms. This course is intended for nursing and other allied health students and for non-biology majors interested in life sciences. Prerequisite: None

3 hrs

LS-MCRB 113  INTRODUCTORY MICROBIOLOGY
An introduction to microbiology with emphasis on infection and the basis of immunity. Three hours lecture per week. For non-majors only; does not count toward Biology degree requirements. Prerequisite(s): High School Biology and Chemistry background highly recommended.

3 hrs

LS-MCRB 114 L  INTRODUCTORY MICROBIOLOGY LABORATORY
Introductory laboratory studies in microbiology and infection to correlate with LS-MCRB 113. Four hours per week. For non-majors only; does not count toward biology degree requirements. Prerequisite: LS-MCRB 112 or LS-MCRB113.

2 hrs

LS-MCRB 121  HUMAN BIOLOGY III (MICROBIOLOGY)
Basic concepts of microbiology with emphasis on infectious diseases and host defenses. Three hours lecture per week. Prerequisite(s): LS-ANATO 119, CHEM 211

3 hrs

LS-MCRB 121 L  HUMAN BIOLOGY III (MICROBIOLOGY) LAB
Laboratory exercises demonstrating basic concepts of microbiology with emphasis on infectious diseases and host defenses. Three hours laboratory per week. Prerequisites or corequisite: LS-MCRB 121 Offered: (semester)

1 hr

LS-MCRB 313  MICROBIOLOGY
Fundamental and applied aspects of microbial structure, metabolism, genetics and diversity. Experimental approaches to studying the microbial world will be emphasized. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206, and LS-BIOC 341 co-requisite.

3 hrs

LS-MCRB 313 L  LABORATORY IN MICROBIOLOGY
General microbiological procedures plus advanced work in the areas of microbial physiology and genetics, pathogenic microbiology, virology, applied microbiology and biotechnology. One hour lecture and six hours lab per week. Pre-or co-requisites, LS-MCRB 313, LS-BIOC 341, consent of SBS adviser. Offered: Fall

3 hrs
LS-MCRB 313 WL  LABORATORY IN MICROBIOLOGY
General microbiological procedures plus advanced work in the areas of microbial physiology and genetics, pathogenic microbiology, virology, applied microbiology, and biotechnology. One hour lecture and six hours lab per week. Designation: Writing Intensive. Prerequisite: Pre-or co-requisites, LS-MCRB 313, LS-BIOC 341 Offered: Fall
3 hrs

LS-MCRB 4180  MICROBIOLOGY
Study of infectious diseases, their etiology, symptoms, prevention and treatment. Special emphasis is placed on plaque formation, caries development, periodontal and other oral diseases that relate to dentistry. Four hours lecture per week
4 hrs

LS-MCRB 431  Virology
Survey of the molecular biology of animal, plant, and bacterial viruses. The course will emphasize the molecular mechanisms of virus replication, viral pathogenesis, and the use of virus as model systems to study mammalian cells. Three hours lecture per week. Prerequisites: BIOLOGY 202 and BIOLOGY 206; pre or co-requisite LS-BIOC 341 or LS-BIOC 365
3 hrs

LS-MCRB 435  IMMUNOLOGY
A study of the cellular and humoral aspects of the immune response, with emphasis upon the mechanisms involved and the relationship of this response to disease processes. Three hours lecture per week. Prerequisites: LS-MCRB 121 or LS-MCRB 313, and LS-BIOC 341 or LS-BIOC 366. Offered: Winter Semesters
3 hrs

**LIFE SCIENCES - PHYSIOLOGY (LSPHYS)**

LS-PHYS 117  HUMAN PHYSIOLOGY
Introduction to body functions presented from an organ systems approach. Three hours lecture per week. For non-majors only; does not count toward biology degree requirements.
3 hrs

LS-PHYS 3070  ORAL PHYSIOLOGY
Concepts of general physiology will be discussed as they relate to the clinical practice of dental hygiene. Emphasis will be placed on the normal and abnormal physiology of oral structures, including such topics as neurophysiology, muscle function, salivation, and endocrinology.
3 hrs

LS-PHYS 316  PRINCIPLES OF PHYSIOLOGY
Physiological functions and processes of animals at the organ and organ systems levels, including concepts of integrated and homeostatic mechanisms. The relationship between organ function and underlying cellular mechanisms in vertebrates will be emphasized. Three hours lecture per week. Prerequisites: BIOLOGY 202, BIOLOGY 206, and LS-BIOC 341.
3 hrs

LS-PHYS 399  PHARMACY PHYSIOLOGY I
Introduction to the general principles of neurophysiology. Prerequisites: BIOLOGY 202 and CHEM 320.
3 hrs

LS-PHYS 400  PHARMACY PHYSIOLOGY II
The principles of physiology presented by an integrated approach based on an organ system format. Emphasis is placed on facts and principles pertinent for the student enrolled in pharmacy. Prerequisite: LS-PHYSICS 399.
3 hrs

LS-PHYS 401  PHYSIOLOGY LECTURE
An integrated study of normal functions of various organ systems of the human body with special consideration of the physiology of the oral cavity and its related structures. 5 hrs

**Henry W. Bloch School of Business and Public Administration**

**BLOCH SCHOOL OF BUSINESS & PUBLIC ADMINISTRATION COURSES ACCOUNTING (ACCTNG)**

ACCTNG 210  INTRODUCTION TO FINANCIAL ACCOUNTING
An overview of basic concepts and terminology associated with reporting financial information to parties outside of an organization. Prerequisite: MATH 110 or its equivalent and completion of 30 hours
3 hrs

ACCTNG 211  INTRODUCTION TO MANAGERIAL ACCOUNTING
An introduction to the use of cost accounting concepts and information in managing the activities of a business. Prerequisite: ACCTNG 210 or its equivalent
3 hrs

ACCTNG 307  COST MANAGEMENT
A study of the principles and techniques of cost accounting with emphasis on the structure of cost accounting systems and the processing, summarizing and reporting of cost information. Topics include various issues relevant for manufacturing and service organizations, and introduction of situations that require the application of cost information to managerial settings. Prerequisite: ACCTNG 211 or its equivalent and Junior standing.
3 hrs
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCTNG 310</td>
<td>INTERMEDIATE ACCOUNTING I</td>
<td>A study of theory and application of external corporate reporting. The course covers a variety of financial accounting issues including assets, liabilities, revenue recognition, and accounting change analysis. Publications and pronouncements of the accounting professions are emphasized where applicable. Prerequisites: ACCTNG 211 or its equivalent and junior standing.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACCTNG 311</td>
<td>INTERMEDIATE ACCOUNTING II</td>
<td>Continued study of intermediate accounting. The course covers a variety of financial accounting issues including corporate equities, income taxes, pensions, other post-employment benefits, leases, and the statement of cash flows. Publications and pronouncements of the accounting profession are emphasized where applicable. Prerequisites: ACCTNG 310 or its equivalent.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACCTNG 350</td>
<td>ACCOUNTING SYSTEMS AND CONTROLS</td>
<td>A survey of computer file methods for accounting data; and, analysis of the administrative, operational, documentation, and security controls over the computer process. Illustrations of computerized accounting and auditing techniques. Prerequisites: MIS 203 or BIS 202, ACCTNG 307 and ACCTNG 310.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACCTNG 405</td>
<td>AUDITING</td>
<td>A study of how the auditor determines the nature and amount of evidence that should be accumulated considering the unique aspects of an engagement, as well as some idea of how that evidence is evaluated in the context of a financial audit. Prerequisites: ACCTNG 311 and ACCTNG 350 or equivalents.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACCTNG 408</td>
<td>FEDERAL INCOME TAXATION</td>
<td>An examination of the theory and practice of taxation as applied to individuals and businesses. Prerequisite: ACCTNG 211 or its equivalent.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACCTNG 409</td>
<td>ADVANCED TAXATION</td>
<td>An examination of the theory, practice, and research methodology of taxation as applied to corporations, partnerships, estates and trusts. Prerequisite: ACCTNG 408 or equivalent.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACCTNG 420</td>
<td>ADVANCED ACCOUNTING</td>
<td>A study of the accounting business combinations and the preparation of consolidated financial statements. Prerequisite: ACCTNG 311 or equivalent.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACCTNG 421</td>
<td>GOVERNMENTAL/NOT-FOR-PROFIT ACCOUNTING</td>
<td>An overview of accounting for state and local governments and not-for-profit entities. Pronouncements of the accounting profession are emphasized where applicable. Prerequisite: ACCTNG 311 or equivalent.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACCTNG 450</td>
<td>TECHNOLOGY AND THE ACCOUNTANT</td>
<td>A study of selected computer, systems, and technology issues that impact contemporary accounting practice and business. The course includes coverage of database management systems and incorporates several hands-on applications. Prerequisite: ACCTNG 350 or equivalent.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACCTNG 496</td>
<td>INTERNSHIP</td>
<td>An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Admission only by prior approval and consent of the instructor. Offered: Every Semester</td>
<td>1 hr</td>
</tr>
<tr>
<td>ACCTNG 497</td>
<td>SPECIAL TOPICS IN ACCOUNTING</td>
<td>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.</td>
<td>1-3 hrs</td>
</tr>
</tbody>
</table>

**BUSINESS ADMINISTRATION (BA)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS-ADM 327</td>
<td>INTERNATIONAL BANKING TRAVEL SEMINAR</td>
<td>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.</td>
<td>1-6 hrs</td>
</tr>
<tr>
<td>BUS-ADM 497</td>
<td>SPECIAL TOPICS</td>
<td>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.</td>
<td>1-6 hrs</td>
</tr>
</tbody>
</table>

**BUSINESS DECISION SCIENCES (BDS)**
BDS 330  INTRODUCTION TO MANAGEMENT SCIENCE
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 creation, 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
3 hrs

BUSINESS INFORMATION SYSTEMS (BIS)

BIS 202  COMPUTER APPLICATIONS IN MANAGEMENT
A comprehensive coverage of computer tools for personal productivity in a management context, including spreadsheets and presentation graphics. Prerequisite: MATH 110 or equivalent Offered: All semesters.
3 hrs

BIS 302  INTRODUCTION TO MANAGEMENT INFORMATION SYSTEMS
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.
3 hrs

BUSINESS MANAGEMENT AND ADMINISTRATION (BMA)

BMA 305  BEHAVIOR IN HUMAN SYSTEMS
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.
3 hrs

BMA 327  INTERNATIONAL INDEPENDENT STUDY IN BUSINESS
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.
3-6 hrs

BMA 360  HUMAN RESOURCE MANAGEMENT
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.
3 hrs

BMA 405  LEADERSHIP SKILLS IN HUMAN SYSTEMS
Continuation of the study of behavior in human systems with emphasis on leadership and skills of effective action. The focus is upon 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 change processes, authority, power, cooperation, communication and 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.
3 hrs

BMA 410  ENVIRONMENT OF INTERNATIONAL BUSINESS
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.
3 hrs

BMA 497  SPECIAL TOPICS
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
1-6 hrs

BMA 497 B  SPECIAL TOPICS: HUMAN RESOURCES
Study and research in areas of special interest under individual faculty direction. Prerequisites: Senior Standing and pre-registration consent of instructor.
1-6 hrs

BMA 497 C  SPECIAL TOPICS: LAW
Study and research in areas of special interest under individual faculty direction. Prerequisites: Senior Standing and pre-registration consent of instructor.
1-6 hrs

BMA 497 D  SPECIAL TOPICS: ORGANIZATIONAL BEHAVIOR
Study and research in areas of special interest under individual faculty direction. Prerequisites: Senior Standing and pre-registration consent of instructor.
1-6 hrs

BMA 497 F  SPECIAL TOPICS: ENTREPRENEURSHIP
Study and research in areas of special interest under individual faculty direction. Prerequisites: Senior Standing and pre-registration consent of instructor.
1-6 hrs
DECISION SCIENCE AND OPERATIONS MANAGEMENT (DSOM)

DSOM 309  Intermediate Business Statistics
This course emphasizes statistical applications in business, and students will complete research projects using one or more multivariate statistical techniques. Topics covered will include statistical software (such as SAS or SPSS), multiple regression, Chi-Square, analysis of variance, non-parametric methods, multivariate analysis, factor analysis, and a brief introduction to structural equation models. Prerequisite: STAT 235 or BDS 308
3 hrs

DSOM 326  Production/Operations Management
This course presents an introduction to the concepts, models, and methods of operations management. Students will study approaches to planning, scheduling, and controlling product and service facilities, processes, cost, quality, quantity, production, capacity, inventory, and distribution requirements. Computer applications and computer-based operations control systems will be introduced as a means to effectively manage the operations functions of both product and service organizations. Prerequisite: ECON 202, STAT 235 or BDS 308
3 hrs

DSOM 346  Management Analysis
This course examines the application of various scientific and mathematical methods to decision making in various business disciplines, and makes use of spreadsheets and other software to construct and analyze practical models of real-world systems. Applications will be based on topics such as project management, decision analysis, scheduling, queuing systems, simulation, optimization/allocation models, forecasting, and profitability analysis. Prerequisites: STAT 235 or BDS 308, and MIS 203 or BIS 202
3 hrs

DSOM 431  Quality and Process Improvement
A study of planning and managing effective quality and processes in organizations. Students are expected to master important quality management and process improvement tools including Six Sigma, TQM, Theory of Constraints, and other contemporary tools via appropriate software, case studies, and projects. Prerequisite: DSOM 309
3 hrs

DSOM 496  Internship: Decision Science and Operations Management
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: Admission only by prior approval and consent of instructor
1-3 hrs

DSOM 497  Special Topics: Decision Science and Operations Management
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: Admission only by prior approval and consent of instructor
1-3 hrs

ENTREPRENEURSHIP (ENT)

ENT 215  Entrepreneurship: An Introduction
This course is designed to provide students with an understanding of the process for identifying and evaluating entrepreneurial opportunities. Students will also learn how strategy, marketing, financing, legal matters, and cash flow impact opportunities in terms of execution and growth, and how to position a new firm for success. Even those who do not feel that they are entrepreneurs should find this course helpful.
3 hrs

ENT 312  Creating New Ventures
This course is designed to help understand the economic, legal, and managerial factors that influence the creation of new wealth. Students will also learn how to develop venture ideas through the preparation and presentation of a detailed business plan and the evaluation of business plans prepared by classmates. In the process, students will develop a personal appreciation for the challenges and rewards of entrepreneurship. Prerequisite: ENT 215 or ENT 315 (can be taken concurrently) or ENT 220
3 hrs

ENT 315  Entrepreneurship: An Introduction
This course is designed to provide students with an understanding of the process for identifying and evaluating entrepreneurial opportunities. Students will also learn how strategy, marketing, financing, legal matters, and cash flow impact opportunities in terms of execution and growth, and how to position a new firm for success. Even those who do not feel that they are entrepreneurs will benefit by discovering how to function more effectively in entrepreneur-led organizations. Students responsible for technical innovation and business development within existing organizations should find this course helpful. Prerequisite: Not open to students enrolled in Bloch School degree programs.
3 hrs

ENT 322  Managing the Growing Business
This course is designed to introduce students to the challenges of the rapidly growing business. Students will learn about the new skill sets that must be acquired and the information that must be collected to support growth, as well as the external support (e.g., bankers, attorneys, accountants, and investors) that can help facilitate growth. In this process, students will acquire an understanding of the ways that entrepreneurs must change as their organizations evolve.
3 hrs

ENT 341  Technology and New Ventures
Students will learn the skills needed to create successful, high-value enterprises, with an emphasis on markets for technology and venture capital. Case studies will emphasize both information technologies and energy/environmental technologies. Prerequisite: ENT 215 or ENT 315 (can be taken concurrently) or ENT 220
3 hrs

ENT 361  Product Innovation Management
Students will examine the product development process from idea generation and evaluation; to design, development, and testing; and through market launch. Additional topics include technology forecasting and assessment, R&D management, technical planning, and organizational models. Prerequisite: MKT 324 or BUS-ADM 324, or consent of instructor
3 hrs
ENT 364  SMALL BUSINESS AND ENTREPRENEURSHIP
This course explores the operational, strategic, legal, financial, family, and business issues found in family-owned and managed companies, and in franchise businesses. The course will provide students with the tools to be successful in such enterprises.

3 hrs

ENT 412  VENTURE CAPITAL FINANCE AND INVESTMENT
This course provides students with an understanding of the venture capital market. Students will learn how private equity funds are raised and structured, and how the venture capital market compares with other sources of capital. Students will also learn how investments are selected, negotiated, valued, and structured.

3 hrs

ENT 425  CORPORATE ENTREPRENEURSHIP
Students receive an introduction to the field of corporate entrepreneurship, including the effectiveness of different models of corporate entrepreneurship. Specific topics include the creation of an entrepreneurial culture within the organization, the translation of opportunities into attractive corporate investments, corporate venturing, and the role of venture champions.

3 hrs

ENT 432  ENTREPRENEURIAL MARKETING
Students will focus on the development of a marketing plan for a business (as opposed to a new product), looking at issues that are relevant for new ventures and also for small and growing organizations. Topics include the design of products and services, the evaluation of market potential, pricing, the development of distribution relationships, and communication.

3 hrs

ENT 446  ENTREPRENEURIAL SELLING AND SALES FORCE MANAGEMENT
This course assists students in developing a successful sales plan for a new venture. The first half of the course deals with sales techniques; the second half addresses important sales force management topics such as recruitment, training, deployment, motivation, compensation, and evaluation.

3 hrs

ENT 460  CREATING THE ENTERPRISE
Creating the Enterprise is an experiential, capstone course that is built around the development and presentation of a business plan in a team competition. The course requires students to integrate their learning from accounting, finance, marketing, and various other business disciplines. Prerequisites: ACCTNG 211, FIN 325 or BUS-ADM 325, MKT 324 or BUS-ADM 324, MGT 330 or BMA 305, and DSOM 326 or BA 426

3 hrs

ENT 491  SMALL BUSINESS MANAGEMENT PRACTICUM
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 firms. Prerequisite: Advanced senior standing. Offered: Each term.

3 hrs

ENT 496  INTERNSHIP: ENTREPRENEURSHIP
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: Admission only by prior approval and consent of instructor.

1-3 hrs

ENT 497  SPECIAL TOPICS: ENTREPRENEURSHIP
Study and research in areas of special interest under individually faculty direction. Prerequisites: Senior standing and pre-registration consent of instructor.

1-3 hrs

FINANCE (FIN)

FIN 325  FINANCIAL MANAGEMENT
This course provides an overview of the relationship between business decisions and the value of the firm, as determined by the marketplace. Students will study the composition of capital structure, capital budgeting, and cost of capital theory, including incremental analysis of investment situations. Prerequisite: ACCTNG 210

3 hrs

FIN 340  FINANCIAL MARKETS AND INSTITUTIONS
Students will receive an introduction to financial institutions, and money and capital markets. Topics to be covered will include the role of government agencies such as the Federal Reserve, interest rate theory, institution management, financial instruments, internationalization, and the impact of e-commerce. Prerequisite: FIN 325 or BUS-ADM 325

3 hrs

FIN 345  INVESTMENTS
The course develops the theoretical framework necessary for a systematic approach to portfolio management. Content includes consideration of investment objectives, measurement of risk and returns, alternative uses of invested funds, analysis of securities markets, and the techniques of security analysis. Students will have an opportunity for the creation and management of an investment portfolio. Prerequisite: FIN 325 or BUS-ADM 325

3 hrs

FIN 419  FINANCIAL STATEMENT ANALYSIS
Students will take an in-depth look at the external financial statements that are prepared by corporations, including the tools needed to organize, summarize, and understand corporate financial data for use in decision making. Ratio analysis, trend analysis, earnings forecasting, bankruptcy predictors, statistical methods important to finance, and financial data bases are among the topics that will be covered. Prerequisites: MGT 302, FIN 325 or BUS-ADM 325

3 hrs
FIN 427  DEBT INSTRUMENTS AND MARKETS
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: BUS-ADM 325, FIN 325, ECON 202

3 hrs

FIN 428  COMMERCIAL BANK MANAGEMENT
This course presents an overview of financial management of the interest spreads, credit risk, liquidity, and capital positions of commercial banks. Topics to be covered include analysis of bank profitability, lending functions and policy, securities investment strategies, fund attraction, regulatory examination, capital adequacy, and integrated asset/liability management. Instructional media includes cases and computerized bank management simulation. Prerequisites: ECON 202, FIN 325 or BUS-ADM 325

3 hrs

FIN 435  ADVANCED CORPORATE FINANCE
The course focuses on the finance function of the firm from the managerial perspective. Topics include working capital management, capital budgeting, financial structure, merger and reorganization, capital rationing, and analysis of risk. Students will use cases and computer techniques. Prerequisite: Nine hours of finance, including FIN 325 or BA 325

3 hrs

FIN 496  INTERNSHIP: FINANCE
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Admission only by prior approval and consent of instructor.

1-3 hrs

FIN 497  SPECIAL TOPICS: FINANCE
Study and research in areas of special interest under individual faculty direction. Prerequisite: Senior Standing and pre-registration consent of instructor

1-3 hrs

HEALTH ADMINISTRATION (HA)

HLTH-ADM 465  CONTEMPORARY ISSUES IN URBAN PUBLIC HEALTH
This course examines current issues in urban public health and the policies and programs designed to address those issues. Issues of interest include treatment of drug addiction, the special health problems of the very young and very old, problems of urban public hospitals, policies towards AIDS treatments, as well as other emerging issues. Using local health officials as guest speakers, the course will examine how these issues affect the Kansas City area in particular.

3 hrs

MANAGEMENT (MGT)

MGT 100  THE FRESHMAN CONNECTION
An introduction to college life and tools that are needed for a successful educational and professional career. Topics vary and often include overviews of University and Bloch School resources, career exploration, presentation skills, cultural diversity, time and stress management, learning styles, and study strategies. Open to freshmen.

3 hrs

MGT 301  BUSINESS WRITING
Business Writing introduces students to the strategic nature of business communication. By the end of the course, students should be able to analyze business situations and prepare messages that fulfill all of the intended purposes of their communication, meet the needs and expectations of business audiences, and take into account other relevant contextual factors. Students will develop the tools to deliver polished, professional communications in a variety of media. Prerequisite: ENGL 225, must complete in junior year

3 hrs

MGT 302  BUSINESS RESEARCH AND PRESENTATIONS
This course will emphasize the development of higher-order thinking skills, which include analysis, synthesis, and evaluation. By the end of the course, students will learn to analyze financial statements, effectively use library and electronic business research tools, and prepare and deliver effective oral and written presentations. Prerequisites: COM ST 110, ACTG 211, MIS 203 or BIS 202, MGT 301

3 hrs

MGT 306  LEGAL, ETHICAL AND REGULATORY ENVIRONMENT OF BUSINESS
The course looks at legal and moral thought, with attention to ethical issues in business. Students are introduced to our common law system; selected areas of law, with attention to the inclusion of cultural and moral values; and an introduction to government regulation of business.

3 hrs

MGT 320  LAW OF COMMERCIAL TRANSACTIONS
Study of major areas of law included in the Uniform Commercial Code. Topics may include sales, commercial paper, bank deposits and collections, aspects of property law, documents of title, investment securities, and secured transactions. Prerequisite: MGT 306 or BMA 306.

3 hrs

MGT 330  UNDERSTANDING THE INDIVIDUAL IN THE ORGANIZATION
This course explores the micro dynamics of organizations: the individual and his/her relationship to other people, teams, and work groups. Topics will include: individual traits, behaviors, and skills for effective performance; self-assessment and professional development; staffing; motivation; individual and group dynamics; multicultural understanding and diversity; and ethical decision making.
MGT 337  MANAGING HUMAN CAPITAL
Building on prior coursework, this course will provide students with advanced human resource concepts and practices as well as practical experience in how human resources should be managed in successful businesses. Student groups will work with a local organization to diagnose, analyze, and make recommendations regarding effective programs in staffing, developing, rewarding, motivating, and managing its personnel. Prerequisite: MGT 330 or BMA 305

MGT 355  ORGANIZATIONAL EFFECTIVENESS AND LEADERSHIP
Students will study the macro dynamics of organizations: broad knowledge of how organizations work and the various ethical means of impacting outcomes. Topics will include: structure, culture, and politics of organizations; human resources and linkages to organizational culture and success; organization influence and political savvy; managing change and learning in a global context; organizational governance, codes of conduct, and internal controls; the role of business in society; and various professional development issues. Prerequisite: MGT 330 or BMA 305

MGT 370  INTERNATIONAL MANAGEMENT
Students receive an introduction to management in an international environment, addressing the management functions and behaviors necessary to develop global vision and management skills at a strategic (macro) and interpersonal (micro) level. Cross-cultural management and competitive strategy are evaluated in the context of global changes.

MGT 470  INTERNATIONAL STUDY IN BUSINESS
This course is designed to provide a study-abroad experience for the student. The course involves three components: study of international business through on-campus lectures and discussions; travel to a foreign country for visits to business firms, government organizations, and cultural sites; and critique sessions of the international learning experience after travel completion.

MGT 496  INTERNSHIP: MANAGEMENT
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Admission only by prior approval and consent of instructor

MGT 497  SPECIAL TOPICS: STRATEGIC MANAGEMENT
Study and research in areas of special interest under individual faculty direction. Prerequisites: Senior Standing and pre-registration consent of instructor.

MIS 100  ESSENTIALS OF POWERPOINT
An overview of numerous topics needed to take the Microsoft Office Specialist certification exam in PowerPoint. Topics covered will include creating and formatting content, and managing and delivering presentations.

MIS 101  ESSENTIALS OF EXCEL
An overview of numerous topics needed to take the Microsoft Office Specialist certification exam in Excel. Topics covered will include creating, analyzing, and formatting data and content and managing workbooks.

MIS 203  COMPUTER APPLICATIONS FOR BUSINESS
A comprehensive coverage of computer tools for personal productivity in a management context, including advanced coverage of spreadsheets and introduction to databases. Prerequisite: MATH 110 and Certification as Microsoft Office Specialist in Excel and PowerPoint.

MIS 402  INFORMATION MANAGEMENT
This course introduces students to the impact of information technologies and systems on the enterprise. Business Intelligence and decision support capabilities are explored as well. Prerequisites: MIS 203 and STAT 235

MIS 415  MANAGING THE INFORMATION SYSTEMS RESOURCE
All organizations today have information systems, and managing the related resources (systems personnel, software applications, databases, networks, computing hardware) is a necessary skill for many employees. This course is aimed at developing the non-technical skills that business-school graduates need to make appropriate decisions about the deployment of information systems throughout the firm. Prerequisites: MIS 203 or BIS 202, and six hours of business school courses at the 300-level or above

MIS 469  INFORMATION SYSTEMS CONSULTING
An application of systems concepts to the evaluation and implementation of information systems. Student teams will analyze, document, and make recommendations for the improvement of these systems, and will communicate their findings via written reports and oral presentations. Course content might be actual projects for local organizations, or it might be a simulation of a consulting engagement. Prerequisite: Senior Standing and Instructor Permission

1 hr
MIS 496  INTERNSHIP: MANAGEMENT INFORMATION SYSTEMS
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: Admission only by prior approval and consent of instructor
1-3 hrs

MIS 497  SPECIAL TOPICS: MANAGEMENT INFORMATION SYSTEMS
Study and research in areas of special interest under individual faculty direction. Prerequisite: Senior Standing and pre-registration consent of instructor
1-3 hrs

MARKETING (MKT)

MKT 324  MARKETING CONCEPTS
The course focuses on the processes involved in the marketing of goods and services, including the meaning and importance of marketing terminology, the marketing mix, the marketing concept, consumerism, market segmentation, market and marketing research, and the impacts of different competitive structures on marketing decision making.
3 hrs

MKT 335  CONSUMER BEHAVIOR IN MARKETING
This course draws upon findings from various disciplines including cognitive psychology, social psychology, sociology, economics, and anthropology to understand and predict buying behavior. Structured around applications in marketing strategy, topical coverage includes motivation, perception, attitude change, choice decisions and the consumption process, as well as post-purchase satisfaction. Prerequisite: MKT 324 or BUS-ADM 324
3 hrs

MKT 348  MARKET ANALYSIS
Market Analysis equips students with the tools needed to be intelligent users of market data. Topics to be covered include the design of research projects, questionnaire design, sampling, data collection techniques, data analysis, and the presentation of results. Prerequisite: MKT 324 or BUS-ADM 324
3 hrs

MKT 418  SALES AND PROMOTION STRATEGIES
Students receive exposure to the planning, implementation, and evaluation of various revenue-generating and promotional strategies. Topics covered will include the analysis of customers, competitors, and product markets; market segmentation; product positioning; media planning; promotional effectiveness; and client-agency relationships. Prerequisite: MKT 324 or BUS-ADM 324
3 hrs

MKT 442  INTERNET/DIRECT MARKETING
This course examines various aspects of traditional direct marketing (e.g., print media and list management); however, it emphasizes electronic/Internet marketing, including hands-on applications. Coverage will include how technology affects an organizations business and consumer practices, and existing marketing mix; database marketing (as well as applications of data warehousing and data mining); Website strategies; and future directions of the field. Prerequisite: MKT 324 or BUS-ADM 324
3 hrs

MKT 476  SERVICES MARKETING
The purpose of this course is to show how the marketing of services differs from the marketing of goods. Additionally, students will learn the relationship between service quality and customer satisfaction, how to understand and assess service expectations, and how to match those expectations with company standards. Prerequisite: MKT 324 or BUS-ADM 324
3 hrs

MKT 480  MARKETING STRATEGY
This senior-year capstone examines various activities within the overall marketing process, and introduces the development and application of an analysis framework. The use of case problems and technology, and exposure of issues related to ethics, allow the student to gain a full understanding of the relationship between marketing and management. Prerequisite: Nine hours of marketing, including MKT 324 or BUS-ADM 324
3 hrs

MKT 496  INTERNSHIP: MARKETING
An opportunity for students to integrate their academic studies via employment with a business/organization in the community. Prerequisite: Admission only by prior approval and consent of instructor
1-3 hrs

PUBLIC ADMINISTRATION (PA)

PUB-ADM 310  INTRODUCTION TO PUBLIC ADMINISTRATION
Introductory analysis of the theory and practice of public administration and its special role in society. General examination of newer approaches to planning, programming, budgeting, and system analysis in the responsible-responsive administration context. The political role of the public administrator in public policy formulation and his/her general strategies.
3 hrs

PUB-ADM 410  RESEARCH METHODS IN PUBLIC ADMINISTRATION
This introductory course focuses on quantitative empirical research design and statistical analyses in relation to public administration issues and concerns. Prerequisite(s): Admission to MPA 5 year program. Offered: Fall, Winter, Summer.
3 hrs

PUB-ADM 415  ISSUES IN URBAN ADMINISTRATION
This course is designed for students in urban affairs, urban planning, business administration, political science, sociology, geosciences, economics and related fields. It provides an overview of major issues and trends in urban administration. Issues include taxes, urban sprawl, race/ethnicity, education, poverty, affordable housing, environment, crime, and land use. Particular focus will be paid to public policy, comparing policies and leadership to construct an interdisciplinary, comparative understanding of how cities address these problems, issues and trends. Offered: Fall
3 hrs
LEADERSHIP FOR PUBLIC SERVICE
The two core purposes of this course are for students to learn about effective and ethical leadership, and for students to understand and develop their own capacity for leadership. The course is organized around three general themes: 1) leadership as relations with subordinates, including issues of work motivation; 2) leadership as lateral relations, including organizational politics and conflict management and resolution; and 3) leadership as influence in the organization's environment. Prerequisite(s): Admission to MPA 5 year program. Offered: Fall, Winter, Summer.

3 hrs

NON-PROFIT LEADERSHIP ISSUES
Focusing on leadership issues in nonprofits, this course will explore issues in an intensive seminar format (fifteen class hours). Topics include building and renewing nonprofit boards, and the power of diversity in nonprofit organizations. Recommended for nonprofit management students. Prerequisite(s): None.

1 hr

NON-PROFIT LEADERSHIP ISSUES: BOARD-STAFF RELATIONS

1 hr

NON-PROFIT LEADERSHIP ISSUES: A VITAL RESOURCE IN A CHANGING WORLD

1 hr

VOLUNTARIsm, PHILANTHROPY & THE NON-PROFIT SECTOR IN THE U.S.
This course provides a survey of the origins, development and contemporary functioning of the private, nonprofit sector in the U.S. The course explores theories and concepts that describe the social, political, legal and economic meaning of voluntarism, philanthropy and the nonprofit sector.

3 hrs

SPECIAL TOPICS IN PUBLIC ADMINISTRATION
Study and research in areas of special interest under individual faculty direction. Prerequisite: Senior standing and pre-registration consent of instructor.

1-3 hrs

SPECIAL TOPICS IN PUBLIC ADMINISTRATION

1-3 hrs

Law School

LAW COURSES
Conservatory of Music & Dance

CONSERVATORY COURSES ACCORDION

ACCORD 100A  PREPARATORY APPLIED STUDY
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

020

ACCORD 100B  APPLIED STUDY OF A SECOND INSTRUMENT
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

020

ACCORD 100C  APPLIED STUDY FOR THE NON-MUSIC MAJOR
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

020

CELLO

CELLO 100 A  PREPARATORY APPLIED STUDY
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

2 hrs

CELLO 100 B  APPLIED STUDY OF A SECOND INSTRUMENT
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

2 hrs

CELLO 100 C  APPLIED STUDY FOR THE NON-MUSIC MAJOR
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.
<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CELLO 100 D</td>
<td>APPLIED STUDY FOR THE NON-MUSIC MAJOR</td>
<td>Nine one-half hour lessons. No jury required.</td>
</tr>
<tr>
<td>CELLO 101</td>
<td>Freshman Cello I</td>
<td></td>
</tr>
<tr>
<td>CELLO 102</td>
<td>Freshman Cello II</td>
<td></td>
</tr>
<tr>
<td>CELLO 201</td>
<td>Sophomore Cello I</td>
<td></td>
</tr>
<tr>
<td>CELLO 202</td>
<td>Sophomore Cello II</td>
<td></td>
</tr>
<tr>
<td>CELLO 301</td>
<td>Junior Cello I</td>
<td></td>
</tr>
<tr>
<td>CELLO 302</td>
<td>Junior Cello II</td>
<td></td>
</tr>
<tr>
<td>CELLO 401</td>
<td>Senior Cello I</td>
<td></td>
</tr>
<tr>
<td>CELLO 402</td>
<td>Senior Cello II</td>
<td></td>
</tr>
</tbody>
</table>

**CLARINET**

<table>
<thead>
<tr>
<th>Course</th>
<th>Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLARINET 100 A</td>
<td>PREPARATORY APPLIED STUDY</td>
<td>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.</td>
</tr>
<tr>
<td>CLARINET 100 B</td>
<td>APPLIED STUDY OF A SECOND INSTRUMENT</td>
<td>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.</td>
</tr>
<tr>
<td>CLARINET 100 C</td>
<td>APPLIED STUDY FOR THE NON-MUSIC MAJOR</td>
<td>Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.</td>
</tr>
<tr>
<td>CLARINET 100 D</td>
<td>APPLIED STUDY FOR THE NON-MUSIC MAJOR</td>
<td>Nine one-half hour lessons. No jury required.</td>
</tr>
<tr>
<td>CLARINET 101</td>
<td>Freshman Clarinet I</td>
<td></td>
</tr>
<tr>
<td>CLARINET 102</td>
<td>Freshman Clarinet II</td>
<td></td>
</tr>
<tr>
<td>CLARINET 201</td>
<td>Sophomore Clarinet I</td>
<td></td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>----------</td>
<td>------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>CLARINET 202</td>
<td>SOPHOMORE CLARINET II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>CLARINET 301</td>
<td>JUNIOR CLARINET I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>CLARINET 302</td>
<td>JUNIOR CLARINET II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>CLARINET 401</td>
<td>SENIOR CLARINET I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>CLARINET 402</td>
<td>SENIOR CLARINET II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td><strong>EUPHONIUM</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EUPHNM 100 A</td>
<td>PREPATORY APPLIED STUDY</td>
<td>2 hrs</td>
</tr>
<tr>
<td>EUPHNM 100 B</td>
<td>APPLIED STUDY OF A SECOND INSTRUMENT</td>
<td>2 hrs</td>
</tr>
<tr>
<td>EUPHNM 100 C</td>
<td>APPLIED STUDY FOR THE NON-MUSIC MAJOR</td>
<td>2 hrs</td>
</tr>
<tr>
<td>EUPHNM 100 D</td>
<td>APPLIED STUDY FOR THE NON-MUSIC MAJOR</td>
<td>1 hr</td>
</tr>
<tr>
<td>EUPHNM 101</td>
<td>FRESHMAN EUPHONIUM I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>EUPHNM 102</td>
<td>FRESHMAN EUPHONIUM II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>EUPHNM 201</td>
<td>SOPHOMORE EUPHONIUM I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>EUPHNM 202</td>
<td>SOPHOMORE EUPHONIUM II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>EUPHNM 301</td>
<td>JUNIOR EUPHONIUM I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>EUPHNM 302</td>
<td>JUNIOR EUPHONIUM II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>EUPHNM 401</td>
<td>SENIOR EUPHONIUM I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>EUPHNM 402</td>
<td>SENIOR EUPHONIUM II</td>
<td>2-4 hrs</td>
</tr>
</tbody>
</table>
**FLUTE**

**FLUTE 100 A  PREPARATORY APPLIED STUDY**
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

2 hrs

**FLUTE 100 B  APPLIED STUDY OF A SECOND INSTRUMENT**
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

2 hrs

**FLUTE 100 C  APPLIED STUDY FOR THE NON-MUSIC MAJOR**
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

2 hrs

**FLUTE 100 D  APPLIED STUDY FOR THE NON-MUSIC MAJOR**
Nine one-half hour lessons. No jury required.

1 hr

**FLUTE 101  FRESHMAN FLUTE I**
2-4 hrs

**FLUTE 102  FRESHMAN FLUTE II**
2-4 hrs

**FLUTE 201  SOPHOMORE FLUTE I**
2-4 hrs

**FLUTE 202  SOPHOMORE FLUTE II**
2-4 hrs

**FLUTE 301  JUNIOR FLUTE I**
2-4 hrs

**FLUTE 302  JUNIOR FLUTE II**
2-4 hrs

**FLUTE 401  SENIOR FLUTE I**
2-4 hrs

**FLUTE 402  SENIOR FLUTE II**
2-4 hrs

**GUITAR**

**GUITAR 100 A  PREPARATORY APPLIED STUDY**
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

2 hrs

**GUITAR 100 B  APPLIED STUDY OF A SECOND INSTRUMENT**
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

2 hrs

**GUITAR 100 C  APPLIED STUDY FOR THE NON-MUSIC MAJOR**
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

2 hrs

**GUITAR 100 D  APPLIED STUDY FOR THE NON-MUSIC MAJOR**
Nine one-half hour lessons. No jury required.

1 hr
GUITAR 101  FRESHMAN GUITAR I
2-4 hrs

GUITAR 102  FRESHMAN GUITAR II
2-4 hrs

GUITAR 201  SOPHOMORE GUITAR I
2-4 hrs

GUITAR 202  SOPHOMORE GUITAR II
2-4 hrs

GUITAR 301  JUNIOR GUITAR I
2-4 hrs

GUITAR 301 J  JUNIOR GUITAR I (JAZZ)
2 hrs

GUITAR 302  JUNIOR GUITAR II
2-4 hrs

GUITAR 302 J  JUNIOR GUITAR II (JAZZ)
2 hrs

GUITAR 401  SENIOR GUITAR I
2-4 hrs

GUITAR 401 J  SENIOR GUITAR I (JAZZ)
2 hrs

GUITAR 402  SENIOR GUITAR II
2-4 hrs

GUITAR 402 J  SENIOR GUITAR II (JAZZ)
2 hrs

HARP

HARP 101  FRESHMAN HARP I
1-4 hrs

HARP 201  SOPHOMORE HARP I
1-4 hrs

HARP 202  SOPHOMORE HARP II
1-4 hrs

HARP 301  JUNIOR HARP I
1-4 hrs

HARP 302  JUNIOR HARP II
1-4 hrs

HARP 401  SENIOR HARP I
1-4 hrs
**HARP 402  SENIOR HARP II**

1-4 hrs

**HARPSICORD**

**HRPCHD 100 A  PREPARATORY APPLIED STUDY**

One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

2 hrs

**HRPCHD 100 B  APPLIED STUDY OF A SECOND INSTRUMENT**

Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

2 hrs

**HRPCHD 100 C  APPLIED STUDY FOR THE NON-MUSIC MAJOR**

Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

2 hrs

**HRPCHD 101  FRESHMAN HARPSICORD I**

2-4 hrs

**HRPCHD 102  FRESHMAN HARPSICORD II**

2-4 hrs

**HRPCHD 201  SOPHOMORE HARPSICORD I**

2-4 hrs

**HRPCHD 202  SOPHOMORE HARPSICORD II**

2-4 hrs

**HRPCHD 301  JUNIOR HARPSICORD I**

2-4 hrs

**HRPCHD 302  JUNIOR HARPSICORD II**

2-4 hrs

**HRPCHD 401  SENIOR HARPSICORD I**

2-4 hrs

**HRPCHD 402  SENIOR HARPSICORD II**

2-4 hrs

**HORN**

**HORN 100 A  PREPARATORY APPLIED STUDY**

One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

2 hrs

**HORN 100 B  APPLIED STUDY OF A SECOND INSTRUMENT**

Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

2 hrs

**HORN 100 C  APPLIED STUDY FOR THE NON-MUSIC MAJOR**

Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

2 hrs

**HORN 100 D  APPLIED STUDY FOR THE NON-MUSIC MAJOR**

Nine one-half hour lessons. No jury required.

1 hr
HORN 101  FRESHMAN HORN I
2-4 hrs
HORN 102  FRESHMAN HORN II
2-4 hrs
HORN 201  SOPHOMORE HORN I
2-4 hrs
HORN 202  SOPHOMORE HORN II
2-4 hrs
HORN 301  JUNIOR HORN I
2-4 hrs
HORN 302  JUNIOR HORN II
2-4 hrs
HORN 401  SENIOR HORN I
2-4 hrs
HORN 402  SENIOR HORN II
2-4 hrs

OBOE
OBOE 100 A  PREPARATORY APPLIED STUDY
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.
2 hrs

OBOE 100 B  APPLIED STUDY OF A SECOND INSTRUMENT
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury performance is required. Consent of the instructor.
2 hrs

OBOE 100 C  APPLIED STUDY FOR THE NON-MUSIC MAJOR
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.
2 hrs

OBOE 100 D  APPLIED STUDY FOR THE NON-MUSIC MAJOR
Nine one-half hour lessons. No jury required.
1 hr

OBOE 101  FRESHMAN OBOE I
2-4 hrs
OBOE 102  FRESHMAN OBOE II
2-4 hrs
OBOE 201  SOPHOMORE OBOE I
2-4 hrs
OBOE 202  SOPHOMORE OBOE II
2-4 hrs
OBOE 301  JUNIOR OBOE I
2-4 hrs
<table>
<thead>
<tr>
<th>Course</th>
<th>Instrument</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBOE 302</td>
<td>Junior Oboe II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>OBOE 401</td>
<td>Senior Oboe I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>OBOE 402</td>
<td>Senior Oboe II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>ORGAN 100A</td>
<td>Preparatory Applied Study</td>
<td>2 hrs</td>
</tr>
<tr>
<td>ORGAN 100B</td>
<td>Applied Study Of A Second Instrument</td>
<td>2 hrs</td>
</tr>
<tr>
<td>ORGAN 100C</td>
<td>Applied Study For The Non-Music Major</td>
<td>2 hrs</td>
</tr>
<tr>
<td>ORGAN 100D</td>
<td>Applied Study For The Non-Music Major</td>
<td>1 hr</td>
</tr>
<tr>
<td>ORGAN 101</td>
<td>Freshman Organ I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>ORGAN 102</td>
<td>Freshman Organ II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>ORGAN 201</td>
<td>Sophomore Organ I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>ORGAN 202</td>
<td>Sophomore Organ II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>ORGAN 301</td>
<td>Junior Organ I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>ORGAN 302</td>
<td>Junior Organ II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>ORGAN 401</td>
<td>Senior Organ I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>ORGAN 402</td>
<td>Senior Organ II</td>
<td>2-4 hrs</td>
</tr>
</tbody>
</table>

**PIANO**

<table>
<thead>
<tr>
<th>Course</th>
<th>Instrument</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIANO 100A</td>
<td>Preparatory Applied Study</td>
<td>2 hrs</td>
</tr>
<tr>
<td>PIANO 101</td>
<td>Freshman Piano I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>PIANO 102</td>
<td>Freshman Piano II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>PIANO 201</td>
<td>Sophomore Piano I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>PIANO 202</td>
<td>Sophomore Piano II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>PIANO 301</td>
<td>Junior Piano I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>PIANO 302</td>
<td>Junior Piano II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>PIANO 401</td>
<td>Senior Piano I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>PIANO 402</td>
<td>Senior Piano II</td>
<td>2-4 hrs</td>
</tr>
</tbody>
</table>
PIANO 100 B  Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

2 hrs

PIANO 100 C  Applied Study For The Non-Music Major
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

2 hrs

PIANO 100 D  Applied Study For The Non-Music Major
Nine one-half hour lessons. No jury required.

1 hr

PIANO 101  Freshman Piano I
2-4 hrs

PIANO 102  Freshman Piano II
2-4 hrs

PIANO 201  Sophomore Piano I
2-4 hrs

PIANO 202  Sophomore Piano II
2-4 hrs

PIANO 301  Junior Piano I
2-4 hrs

PIANO 301 J  Junior Piano I (Jazz)
2 hrs

PIANO 302  Junior Piano II
2-4 hrs

PIANO 302 J  Junior Piano II (Jazz)
2 hrs

PIANO 401  Senior Piano I
2-4 hrs

PIANO 401 J  Senior Piano I (Jazz)
2 hrs

PIANO 402  Senior Piano II
2-4 hrs

PIANO 402 J  Senior Piano II (Jazz)
2 hrs

SAXOPHONE
SAXOPH 100 A  Preparatory Applied Study
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

2 hrs

SAXOPH 100 B  Applied Study Of A Second Instrument
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

2 hrs
SAXOPH 100 C  APPLIED STUDY FOR THE NON-MUSIC MAJOR
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.
2 hrs

SAXOPH 100 D  APPLIED STUDY FOR THE NON-MUSIC MAJOR
Nine one-half hour lessons. No jury required.
1 hr

SAXOPH 101  FRESHMAN SAXOPHONE I
2-4 hrs

SAXOPH 101 J  FRESHMAN SAXOPHONE I (JAZZ)
2 hrs

SAXOPH 102  FRESHMAN SAXOPHONE II
2-4 hrs

SAXOPH 102 J  FRESHMAN SAXOPHONE II (JAZZ)
2 hrs

SAXOPH 201  SOPHOMORE SAXOPHONE I
2-4 hrs

SAXOPH 201 J  SOPHOMORE SAXOPHONE I (JAZZ)
2 hrs

SAXOPH 202  SOPHOMORE SAXOPHONE II
2-4 hrs

SAXOPH 202 J  SOPHOMORE SAXOPHONE II (JAZZ)
2 hrs

SAXOPH 301  JUNIOR SAXOPHONE I
2-4 hrs

SAXOPH 301 J  JUNIOR SAXOPHONE I (JAZZ)
2 hrs

SAXOPH 302  JUNIOR SAXOPHONE II
2-4 hrs

SAXOPH 302 J  JUNIOR SAXOPHONE II (JAZZ)
2 hrs

SAXOPH 401  SENIOR SAXOPHONE I
2-4 hrs

SAXOPH 401 J  SENIOR SAXOPHONE I (JAZZ)
2 hrs

SAXOPH 402  SENIOR SAXOPHONE II
2-4 hrs

SAXOPH 402 J  SENIOR SAXOPHONE II (JAZZ)
2 hrs
**STRING BASS**

**STR-BASS 100 A  PREPARATORY APPLIED STUDY**
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

2 hrs

**STR-BASS 100 B  APPLIED STUDY OF A SECOND INSTRUMENT**
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

2 hrs

**STR-BASS 100 C  APPLIED STUDY FOR THE NON-MUSIC MAJOR**
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

2 hrs

**STR-BASS 100 D  APPLIED STUDY FOR THE NON-MUSIC MAJOR**
Nine one-half hour lessons. No jury required.

1 hr

**STR-BASS 101  FRESHMAN STRING BASS I**
2-4 hrs

**STR-BASS 102  FRESHMAN STRING BASS II**
2-4 hrs

**STR-BASS 201  SOPHOMORE STRING BASS I**
2-4 hrs

**STR-BASS 202  SOPHOMORE STRING BASS II**
2-4 hrs

**STR-BASS 301  JUNIOR STRING BASS I**
2-4 hrs

**STR-BASS 301 J  JUNIOR ST BASS I (JAZZ)**
2 hrs

**STR-BASS 302  JUNIOR STRING BASS II**
2-4 hrs

**STR-BASS 302 J  JUNIOR ST BASS II (JAZZ)**
2 hrs

**STR-BASS 401  SENIOR STRING BASS I**
2-4 hrs

**STR-BASS 401 J  SENIOR ST BASS I (JAZZ)**
2 hrs

**STR-BASS 402  SENIOR STRING BASS II**
2-4 hrs

**STR-BASS 402 J  SENIOR ST BASS II (JAZZ)**
2 hrs

**TROMBONE**

**TROMB 100 A  PREPARATORY APPLIED STUDY**
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.
2 hrs
TROMB 100 B  APPLIED STUDY OF A SECOND INSTRUMENT
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

2 hrs
TROMB 100 C  APPLIED STUDY FOR THE NON-MUSIC MAJOR
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

2 hrs
TROMB 100 D  APPLIED STUDY FOR THE NON-MUSIC MAJOR
Nine one-half hour lessons. No jury required.

1 hr
TROMB 101  FRESHMAN TROMBONE I

2-4 hrs
TROMB 101 J  FRESHMAN TROMBONE I (JAZZ)

2 hrs
TROMB 102  FRESHMAN TROMBONE II

2-4 hrs
TROMB 102 J  FRESHMAN TROMBONE II (JAZZ)

2 hrs
TROMB 201  SOPHOMORE TROMBONE I

2-4 hrs
TROMB 201 J  SOPHOMORE TROMBONE I (JAZZ)

2 hrs
TROMB 202  SOPHOMORE TROMBONE II

2-4 hrs
TROMB 202 J  SOPHOMORE TROMBONE II (JAZZ)

2 hrs
TROMB 301  JUNIOR TROMBONE I

2-4 hrs
TROMB 301 J  JUNIOR TROMBONE I (JAZZ)

2 hrs
TROMB 302  JUNIOR TROMBONE II

2-4 hrs
TROMB 302 J  JUNIOR TROMBONE II (JAZZ)

2 hrs
TROMB 401  SENIOR TROMBONE I

2-4 hrs
TROMB 401 J  SENIOR TROMBONE I (JAZZ)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TROMB 402</td>
<td>SENIOR TROMBONE II</td>
</tr>
<tr>
<td>2-4 hrs</td>
<td></td>
</tr>
<tr>
<td>TROMB 402 J</td>
<td>SENIOR TROMBONE II (JAZZ)</td>
</tr>
<tr>
<td>2 hrs</td>
<td></td>
</tr>
</tbody>
</table>

**TRUMPET**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRUMPET 100 A</td>
<td>PREPARATORY APPLIED STUDY</td>
<td>2 hrs</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>TRUMPET 100 B</td>
<td>APPLIED STUDY OF A SECOND INSTRUMENT</td>
<td>2 hrs</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>TRUMPET 100 C</td>
<td>APPLIED STUDY FOR THE NON-MUSIC MAJOR</td>
<td>2 hrs</td>
</tr>
<tr>
<td></td>
<td>Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.</td>
<td></td>
</tr>
<tr>
<td>TRUMPET 100 D</td>
<td>APPLIED STUDY FOR THE NON-MUSIC MAJOR</td>
<td>1 hr</td>
</tr>
<tr>
<td></td>
<td>Nine one-half hour lessons. No jury required.</td>
<td></td>
</tr>
<tr>
<td>TRUMPET 101</td>
<td>FRESHMAN TRUMPET I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>TRUMPET 101 J</td>
<td>FRESHMAN TRUMPET I (JAZZ)</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TRUMPET 102</td>
<td>FRESHMAN TRUMPET II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>TRUMPET 102 J</td>
<td>FRESHMAN TRUMPET II (JAZZ)</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TRUMPET 201</td>
<td>SOPHOMORE TRUMPET I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>TRUMPET 201 J</td>
<td>SOPHOMORE TRUMPET I (JAZZ)</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TRUMPET 202</td>
<td>SOPHOMORE TRUMPET II</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>TRUMPET 202 J</td>
<td>SOPHOMORE TRUMPET II (JAZZ)</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TRUMPET 301</td>
<td>JUNIOR TRUMPET I</td>
<td>2-4 hrs</td>
</tr>
<tr>
<td>TRUMPET 301 J</td>
<td>JUNIOR TRUMPET I (JAZZ)</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TRUMPET 302</td>
<td>JUNIOR TRUMPET II</td>
<td>2-4 hrs</td>
</tr>
</tbody>
</table>
TRUMPET 302 J  JUNIOR TRUMPET II (JAZZ)

2 hrs

TRUMPET 368  ORCHESTRAL LITERATURE FOR TRUMPET

Intended to introduce students to the standard repertoire for orchestral trumpet; class meets once weekly for an hour. Students will be expected to prepare and play approximately a dozen works per semester, rotating parts in a full trumpet section. Prerequisite: Permission of faculty

1 hr

TRUMPET 401  SENIOR TRUMPET I

2-4 hrs

TRUMPET 401 J  SENIOR TRUMPET I (JAZZ)

2 hrs

TRUMPET 402  SENIOR TRUMPET II

2-4 hrs

TRUMPET 402 J  SENIOR TRUMPET II (JAZZ)

2 hrs

TUBA

TUBA 100 A  PREPARATORY APPLIED STUDY

One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

2 hrs

TUBA 100 B  APPLIED STUDY OF A SECOND INSTRUMENT

Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

2 hrs

TUBA 100 C  APPLIED STUDY FOR THE NON-MUSIC MAJOR

Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

2 hrs

TUBA 100 D  APPLIED STUDY FOR THE NON-MUSIC MAJOR

Nine one-half hour lessons. No jury required.

1 hr

TUBA 101  FRESHMAN TUBA I

2-4 hrs

TUBA 102  FRESHMAN TUBA II

2-4 hrs

TUBA 201  SOPHOMORE TUBA I

2-4 hrs

TUBA 202  SOPHOMORE TUBA II

2-4 hrs

TUBA 301  JUNIOR TUBA I

2-4 hrs

TUBA 302  JUNIOR TUBA II

2-4 hrs

TUBA 401  SENIOR TUBA I

2-4 hrs
TUBA 402 SENIOR TUBA II
2-4 hrs

VIOLA

VIOLA 100 A PREPARATORY APPLIED STUDY
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.
2 hrs

VIOLA 100 B APPLIED STUDY OF A SECOND INSTRUMENT
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.
2 hrs

VIOLA 100 C APPLIED STUDY FOR THE NON-MUSIC MAJOR
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.
2 hrs

VIOLA 100 D APPLIED STUDY FOR THE NON-MUSIC MAJOR
Nine one-half hour lessons. No jury required.
1 hr

VIOLA 101 FRESHMAN VIOLA I
2-4 hrs

VIOLA 102 FRESHMAN VIOLA II
2-4 hrs

VIOLA 201 SOPHOMORE VIOLA I
2-4 hrs

VIOLA 202 SOPHOMORE VIOLA II
2-4 hrs

VIOLA 301 JUNIOR VIOLA I
2-4 hrs

VIOLA 302 JUNIOR VIOLA II
2-4 hrs

VIOLA 401 SENIOR VIOLA I
2-4 hrs

VIOLA 402 SENIOR VIOLA II
2-4 hrs

VIOLIN

VIOLIN 100 A PREPARATORY APPLIED STUDY
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.
2 hrs

VIOLIN 100 B APPLIED STUDY OF A SECOND INSTRUMENT
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.
2 hrs

VIOLIN 100 C APPLIED STUDY FOR THE NON-MUSIC MAJOR
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.
2 hrs
VIOLIN 100 D  APPLIED STUDY FOR THE NON-MUSIC MAJOR
Nine one-half hour lessons. No jury required.

1 hr

VIOLIN 101  FRESHMAN VIOLIN I

2-4 hrs

VIOLIN 102  FRESHMAN VIOLIN II

2-4 hrs

VIOLIN 201  SOPHOMORE VIOLIN I

2-4 hrs

VIOLIN 202  SOPHOMORE VIOLIN II

2-4 hrs

VIOLIN 301  JUNIOR VIOLIN I

2-4 hrs

VIOLIN 302  JUNIOR VIOLIN II

2-4 hrs

VIOLIN 401  SENIOR VIOLIN I

2-4 hrs

VIOLIN 402  SENIOR VIOLIN II

2-4 hrs

VOICE BASSOON

BASSOON 100 A  PREPARATORY APPLIED STUDY
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

2 hrs

BASSOON 100 B  APPLIED STUDY OF A SECOND INSTRUMENT
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

2 hrs

BASSOON 100 C  APPLIED STUDY FOR THE NON-MUSIC MAJOR
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

2 hrs

BASSOON 100 D  APPLIED STUDY FOR THE NON-MUSIC MAJOR
Nine one-half hour lessons. No jury required.

1 hr

BASSOON 101  FRESHMAN BASSOON I

2-4 hrs

BASSOON 102  FRESHMAN BASSOON II

2-4 hrs

BASSOON 201  SOPHOMORE BASSOON I

2-4 hrs

BASSOON 202  SOPHOMORE BASSOON II

2-4 hrs
BASSOON 301  JUNIOR BASSOON I
2-4 hrs

BASSOON 302  JUNIOR BASSOON II
2-4 hrs

BASSOON 401  SENIOR BASSOON I
2-4 hrs

BASSOON 402  SENIOR BASSOON II
2-4 hrs

CONSERVATORY

CONSVTY 101  VOICE CLASS I
A course in the fundamentals of correct voice productions; breathing, breath control, study of vowel forms and consonants. Elementary songs. Poise, posture, and stage presence. This course covers two points of view: development of the student's own voice and the pedagogy of voice-class instruction. A voice audition is required before registration.
2 hrs

CONSVTY 103  FUNDAMENTALS OF MUSIC THEORY
An introduction to the rudiments of music theory and basic musicianship skills. Designed primarily as a review course for Conservatory students. Non-music majors may also enroll in this course.
2 hrs

CONSVTY 104  JAZZ IMPROVISATION I
A systematic approach to the art of jazz improvisation. Emphasis upon performance as well as analysis. Prerequisite: CONSVTY 122 or consent of the instructor.
2 hrs

CONSVTY 105  JAZZ IMPROVISATION FOR NON-JAZZ MAJORS
This course is designed to provide the non-Jazz major with fundamental concepts needed to compose spontaneously. Blues and basic jazz forms are covered through performance and recordings. Offered: Fall
2 hrs

CONSVTY 108  BEGINNING PIANO FOR NON-MUSIC MAJORS
A class for non-music majors to acquire basic piano skills. Popular arrangements and group techniques designed to encourage students to play the piano for pleasure. Prerequisite: Consent of the instructor.
2 hrs

CONSVTY 110  KEYBOARD SKILLS I
Group instruction in beginning techniques of reading, harmonization, transposition, and improvisation, including an introduction to MIDI technology.
2 hrs

CONSVTY 114  PIANO SIGHT-READING I
Laboratory practice in sight-reading for piano majors.
1 hr

CONSVTY 115  PIANO SIGHT-READING II
Continuation of CONSVTY 114.
1 hr

CONSVTY 120  MUSIC APPRECIATION
Designed for the general University student with little or no music background and required for Dance Majors (no credit for music majors). An emphasis on the basic elements of music and the historical and stylistic periods, illustrated by examples from different genre, such as instrumental and vocal ensembles, large and small, solo literature for voice and instruments, and dance. Three class sessions a week with frequent live performance and guest speakers.
3 hrs

CONSVTY 121  MUSIC THEORY I
A course presenting the elementary melodic, rhythmic, and harmonic elements of music through part-writing and analysis. The vocabulary for the first semester includes traditional usage and analysis of triads and their inversions, nonharmonic tones, introduction to chords of the seventh, and elementary modulation.
3 hrs

CONSVTY 122  MUSIC THEORY II
Continuation of CONSVTY 121. Prerequisite: CONSVTY 121 or equivalent.
3 hrs
CONSVTY 123  KEYBOARD SKILLS II
Group instruction in intermediate-level reading, harmonization, transposition, accompaniments, and improvisation in a variety of styles. Introductory techniques in MIDI technology are also included.

2 hrs

CONSVTY 125  HISTORY AND DEVELOPMENT OF ROCK AND ROLL
Designed for students with little or no music background, the course is an exploration of American popular music from early Rhythm and Blues and Country Western through Woodstock. Examines in detail the social/racial issues most important to the music and the cultural history of twentieth-century America. The course features online video lectures and numerous interviews with professors and scholars from other disciplines, presenting a perspective of the influence of this music on nearly every area of American life. Students are required to participate in online discussion groups as part of the class. Music majors may enroll for music elective credit.

3 hrs

CONSVTY 126  INTRODUCTION TO WORLD MUSIC
An introduction to global music traditions and their cultural contexts. Open to all students.

3 hrs

CONSVTY 127  MUSIC AND FILM
Designed for the general university student, this course will survey the use of music in cinema. It will include sections on music, technology, the film medium and the various ways in which music adds to the cinematic experience. Music majors may enroll for elective credit. No prerequisite.

3 hrs

CONSVTY 128  INTRODUCTION TO MUSIC EDUCATION/MUSIC THERAPY
An introductory course for all BME Choral and Instrumental majors, all music therapy majors, and all students who want general information about the field of music education and music therapy. Includes information on the profession and the role of music education in a school curriculum, as well as the role of music therapy in various settings.

1 hr

CONSVTY 129 A  EAR TRAINING AND SOLFEGE
Study of tonal aural problems and rhythms. Introduction to movable do solfege.

1 hr

CONSVTY 129 B  EAR TRAINING AND SOLFEGE
Continuation of CONSVTY 129A. Prerequisite: CONSVTY 129A.

1 hr

CONSVTY 130  MUSIC THERAPY TECHNIQUES: ADULTS
Class demonstration and participation in use of materials for psychiatric and geriatric clients. Required of all BME Therapy majors.

3 hrs

CONSVTY 133  BEGINNING COMPOSITION I
Introduction to the compositional process, including notation, calligraphy and score preparation, styles and forms, and related topics. A weekly one-hour lab is required.

3 hrs

CONSVTY 133 A  BEGINNING COMPOSITION FOR NON-COMPOSITION MAJORS I
An introductory course in music composition, with exercises in instrumentation, notation, orchestration, form, melodic construction, harmony, counterpoint, and rhythm. Discussion and analysis of current works, trends and techniques in music composition. Final project is an original composition. A weekly one-hour lab is required.

2 hrs

CONSVTY 133 B  BEGINNING COMPOSITION FOR PROSPECTIVE COMPOSITION MAJORS
A class for students wishing to work toward major status in the music composition program. Exercises and projects as in 133A, with an extra hour per-week of in-depth, guided exercises and portfolio development. Prerequisite: Permission of the instructor via evaluation of a composition portfolio-in-progress on the first day of class. A weekly one-hour lab is required.

3 hrs

CONSVTY 134  BEGINNING COMPOSITION II
Continuation of CONSVTY 133. Prerequisites: CONSVTY 121 and CONSVTY 133 or consent of the instructor. A weekly one-hour lab is required.

3 hrs

CONSVTY 134 A  BEGINNING COMPOSITION FOR NON-COMPOSITION MAJORS II
Prerequisites: CONSVTY 133A or consent of the instructor via portfolio evaluation on the first day of class. A weekly one-hour lab is required.

2 hrs

CONSVTY 134 B  BEGINNING COMPOSITION FOR PROSPECTIVE COMPOSITION MAJORS II
Continuation of CONSVTY 133B. Exercises and projects as in CONSVTY 134A., with an extra hour per-week of in-depth, guided exercises and portfolio development. Prerequisites: CONSVTY 133B or consent of the instructor via portfolio evaluation on the first day of class. A weekly one-hour lab is required.

3 hrs

CONSVTY 150  INTRODUCTION TO MUSIC LITERATURE
An introduction to the major composers, literature, and forms of the various historical periods. Bibliographical sources and library procedures as well as extensive listening requirements are included.
CONSVTY 154  MUSIC LISTENING LABORATORY
"Listening" includes works of all major periods and styles in live performance. May be repeated for credit. Required for all Conservatory music majors. Non-music majors encouraged to enroll.

1 hr

CONSVTY 154 A  MUSIC LISTENING LABORATORY: NON-WESTERN CULTURES
The course is a study of music in culture and introduces undergraduate students to living music, musical instruments, and dance of oral traditions and music of high cultures outside the limits of urban European art music through discussion, performance, and observation. Required for all Conservatory music majors. Non-music majors are encouraged to enroll.

1 hr

CONSVTY 160  WIND AND PERCUSSION LABORATORY
Designed for the student working at a beginning level of performance on wind and/or percussion instruments. Instruction will focus on basic playing techniques and pedagogical issues. Enrollment for credit not required if student is concurrently enrolled in CONSVTY 373 (C,D,E,F,H, OR I), CONSVTY 381, CONSVTY 383, or CONSVTY 386. Prerequisite(s): Permission of instructor.

1 hr

CONSVTY 161  STRING INSTRUMENT LABORATORY
Designed for the student working at a beginning level of performance on string instruments. Instruction will focus on basic playing techniques and pedagogical issues. Enrollment for credit not required if student is concurrently enrolled in CONSVTY 373 (A&B), CONSVTY 381, CONSVTY 383, or CONSVTY 386. Prerequisite: Permission of instructor.

1 hr

CONSVTY 171  FOREIGN LANGUAGE FOR SINGING I
A course for Italian and German diction. Emphasis is placed on oratorio rather than conversational pronunciation. Required for BME Choral and BM voice.

2 hrs

CONSVTY 172  FOREIGN LANGUAGE FOR SINGING II
A course for French and Latin diction. Emphasis is placed on oratorio rather than conversational pronunciation. Required for BME Choral and BM voice.

2 hrs

CONSVTY 180  MUSIC IN SPECIAL EDUCATION
Class demonstration and participation in the use of music materials for handicapped children.

3 hrs

CONSVTY 185 A  FOREIGN LANGUAGE FOR SINGING I

2 hrs

CONSVTY 185 B  FOREIGN LANGUAGE FOR SINGING II
A course for Italian diction. Emphasis is placed on sung rather than conversational pronunciation. Required for BM voice.

2 hrs

CONSVTY 185 C  FOREIGN LANGUAGE FOR SINGING III
A course for German diction. Emphasis is placed on sung rather than conversational pronunciation. Required for BM voice.

2 hrs

CONSVTY 185 D  FOREIGN LANGUAGE FOR SINGING IV
A course for French diction. Emphasis is placed on sung rather than conversational pronunciation. Required for BM voice.

2 hrs

CONSVTY 199  KANGAROO BAND
This band will provide music for men's and women's basketball games. Members are required to attend all home games. Open to all University students by audition.

1 hr

CONSVTY 202  BASIC TECHNIQUES OF AUDIO RECORDING I
A study of the philosophy, history, and development of audio recording. Practical application of recording techniques and development of recording skills.

3 hrs

CONSVTY 203  BASIC TECHNIQUES OF AUDIO RECORDING II
Continuation of study of recording techniques and development of recording skills. Prerequisite: CONSVTY 202 or consent of the instructor.

3 hrs

CONSVTY 204  JAZZ IMPROVISATION II
Prerequisite: CONSVTY 104 or consent of the instructor.

2 hrs
CONSVTY 205  APPLIED JAZZ STUDIES
Unlimited repeatability. This weekly private lesson includes the study of advanced concepts used to compose spontaneously. Includes the analyses of harmonic progressions, applications of scales and rhythmic interpretation. Prerequisite: Jazz majors with the approval of the instructor.

2 hrs

CONSVTY 210  CLINICAL EXPERIENCE
One hour minimum of supervised clinical experience in music therapy and one hour of seminar per week, which includes practice in developing a treatment plan and writing clinical progress reports. All clinicals regardless of contact hours must have a minimum on-site 10 week duration.

1 hr

CONSVTY 210 A  CLINICAL EXPERIENCE: I
Must be taken concurrently with CONSVTY 260

1 hr

CONSVTY 210 B  CLINICAL EXPERIENCE: II
Primarily assists the site coordinator with some leadership responsibilities.

1 hr

CONSVTY 210 C  CLINICAL EXPERIENCE: III
Equal assisting and leading responsibilities on-site

1 hr

CONSVTY 210 D  CLINICAL EXPERIENCE: IV
Some assisting and primarily leading responsibilities on-site.

1 hr

CONSVTY 210 E  CLINICAL EXPERIENCE: V
Must be taken concurrently with CONSVTY 408

1 hr

CONSVTY 210 F  CLINICAL EXPERIENCE VI
Must be taken concurrently with CONSVTY 409.

1 hr

CONSVTY 214  PIANO SIGHT-READING III
Laboratory practice in sight-reading for piano majors. Prerequisite: CONSVTY 115.

1 hr

CONSVTY 215  PIANO SIGHT-READING IV
Laboratory practice in sight-reading for piano majors. Prerequisite: CONSVTY 214.

1 hr

CONSVTY 221  MUSIC THEORY III
Continuation of CONSVTY 122. Introduction to nineteenth century harmony. Prerequisite: CONSVTY 122.

3 hrs

CONSVTY 222 A  MUSIC THEORY IV
Continuation of CONSVTY 221. An introduction to 20th century analysis and techniques, focusing on popular music and jazz styles. Study in performing, compositional skills, and related ear-training. Prerequisite: CONSVTY 221.

3 hrs

CONSVTY 223  KEYBOARD SKILLS III
Group instruction in advanced techniques of reading, harmonization, transposition, and improvisation, with extended-range accompaniments. Techniques for practicing using MIDI technology are also included.

2 hrs

CONSVTY 229 A  EAR TRAINING AND SOLFEGE
Continuation of CONSVTY 129B. Prerequisite: CONSVTY 129B.

1 hr

CONSVTY 229 B  EAR TRAINING AND SOLFEGE
Continuation of CONSVTY 229A. Prerequisite: CONSVTY 229A.

1 hr
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 233</td>
<td>Intermediate Composition I</td>
<td>Continuation of CONSVTY 134. A weekly one-hour lab is required. Prerequisites for composition majors: CONSVTY 134 and CONSVTY 122 or consent of the instructor. Prerequisites for non-majors: a significant composition portfolio (to be submitted on the first day of class for consideration).</td>
</tr>
<tr>
<td></td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 233 A</td>
<td>Beginning Composition for Non-Composition Majors I</td>
<td>Continuation of CONSVTY 134A. A weekly one-hour lab is required. Prerequisite: CONSVTY 122 and CONSVTY 134A, or consent of the composition faculty via portfolio submission on the first day of class.</td>
</tr>
<tr>
<td></td>
<td>2 hrs</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 234</td>
<td>Intermediate Composition II</td>
<td>Continuation of Cons. 233. Prerequisites: Cons. 221 and Cons. 233 or consent of the instructor. A weekly one-hour lab is required.</td>
</tr>
<tr>
<td></td>
<td>2 hrs</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 234 A</td>
<td>Beginning Composition for Non-Composition Majors II</td>
<td>Continuation of CONSVTY 233A. A weekly one-hour lab is required. Prerequisite: CONSVTY 221 and CONSVTY 233A, or consent of the composition faculty via portfolio submission on the first day of class.</td>
</tr>
<tr>
<td></td>
<td>2 hrs</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 235</td>
<td>Techniques Of Electronic Music I</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 236</td>
<td>Techniques Of Electronic Music II</td>
<td>Continuation of Cons. 235. Focus is on digital synthesis, sampling and sequence techniques. Three one-hour lectures/demonstrations per week; 2-2 1/2 hours of personal studio time per week scheduled. Class recital of composed works each semester. Prerequisite: CONSVTY 235 or consent of the instructor. Offered: Winter.</td>
</tr>
<tr>
<td></td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 260</td>
<td>Clinical Foundations Of Music Therapy</td>
<td>This course is intended to prepare students majoring in music therapy for clinical experiences in the community. Students learn and develop skills related to the treatment process. Prerequisites: Students must take concurrently with CONSVTY 210A, Clinical Experience I</td>
</tr>
<tr>
<td></td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 270</td>
<td>Marching Band Technique</td>
<td>A study of organization and formations involved for use with varsity and military bands.</td>
</tr>
<tr>
<td></td>
<td>1 hr</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 285</td>
<td>Elementary Music Methods</td>
<td>Laboratory course for classroom teachers in which principles of instructional design will be applied to music teaching. Students who have extensive music background may elect CONSVTY 385 in place of CONSVTY 285.</td>
</tr>
<tr>
<td></td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 301 B</td>
<td>Men's Chorus</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 hr</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 301 C</td>
<td>Bella Voce</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 hr</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 301 D</td>
<td>Connection</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 hr</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 301 E</td>
<td>Opera/Musical Theatre Ensemble</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>1 hr</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 301 G</td>
<td>Ensemble For Composers</td>
<td>Observation, score analysis, non-performance participating during a semester’s rehearsals and performance by a participating Conservatory ensemble. Students a.) keep journals that are periodically reviewed and graded by the composition faculty, and b.) meet with composition faculty periodically to review and discuss issues raised in the ensemble settings. Prerequisite(s): Successful completion of four semesters of major ensemble participation as a performer, and either CONSVTY 234 or permission of the composition faculty.</td>
</tr>
<tr>
<td></td>
<td>1 hr</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 301 H</td>
<td>Musica Nova</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 hr</td>
<td></td>
</tr>
</tbody>
</table>
CONSVTY 302  Orchestra
Required of all qualified music majors and open to all interested students by audition.
2 hrs

CONSVTY 303 B  Jazz Band
1 hr

CONSVTY 303 C  Percussion Ensemble
1 hr

CONSVTY 303 D  Accordion Orchestra
1 hr

CONSVTY 303 E  Jazz Workshop
Prerequisite: Consent of the instructor.
1 hr

CONSVTY 303 G  Jazz Orchestra
1 hr

CONSVTY 304  Jazz Improvisation III
Prerequisite: CONSVTY 204 or consent of the instructor.
2 hrs

CONSVTY 305 A  Principles of Chamber Music
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.
1 hr

CONSVTY 305 B  Principles of Chamber Music
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.
1 hr

CONSVTY 305 C  Principles of Chamber Music
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.
1 hr

CONSVTY 305 E  Principles of Chamber Music
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coaching.
1 hr

CONSVTY 305 G  Principles of Chamber Music
Collaborative music-making in groups of like-instruments (piano ensembles, flute quartets, sax quartets, sax quartets, etc., plus beginning experiences in string quartets, woodwind and brass quintets, etc.). Weekly coachings.
1 hr

CONSVTY 305 H  Chamber Orchestra
1 hr

CONSVTY 305 J  Chamber Music Guitar
1 hr

CONSVTY 306 A  Conservatory Wind Ensemble
2 hrs

CONSVTY 306 C  Wind Symphony
The Wind Symphony comprises wind, brass and percussion students of the highest level in the Conservatory and performs repertoire of the highest caliber available to the medium. The curriculum is well balanced between traditional, modern, and chamber music and requires advanced musical and technical facility amongst its members. The class is open to all UMKC students by audition.
2 hrs
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 307 A</td>
<td>CANTICUM NOVUM</td>
<td>1 hr</td>
</tr>
<tr>
<td>CONSVTY 307 B</td>
<td>CONSERVATORY CHORALE</td>
<td>2 hrs</td>
</tr>
<tr>
<td>CONSVTY 308 A</td>
<td>CONSERVATORY CONCERT CHOIR</td>
<td>1 hr</td>
</tr>
<tr>
<td>CONSVTY 309</td>
<td>AUDIO RECORDING III</td>
<td>Continuation of study of recording techniques and music production skills. Prerequisite: CONSVTY 203.</td>
</tr>
<tr>
<td>CONSVTY 310</td>
<td>KEYBOARD SKILLS IV</td>
<td>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.</td>
</tr>
<tr>
<td>CONSVTY 311</td>
<td>JAZZ THEORY</td>
<td>The basics of written jazz harmony and its nomenclature will be addressed. Topics covered will include but not be limited to jazz scales and modes: chords, i.e. from the 7 through the 13 with all of their frequent jazz alterations; harmonic progressions, reharmonization;voice leading, dissonance; melody, transcription, analysis and the study of form(s). Notation will be addressed throughout. Students will acquire the fundamentals to pursue jazz improvisation, arranging and composition on a more informed level. This class is a prerequisite to Jazz Arranging. Prerequisite: CONSVTY 222B Theory IV and instructor permission</td>
</tr>
<tr>
<td>CONSVTY 314</td>
<td>SEMINAR IN CHAMBER MUSIC</td>
<td>Potential enrollees must audition. Those accepted from a pool of players from which chamber groups are drawn each semester. Groups must rehearse four hours a week, and will receive a one-hour coaching each week. All enrollees will also take part in a periodic chamber music master class. This class, two hours in length, will be taught by various members of the core chamber music faculty and by guest artists.</td>
</tr>
<tr>
<td>CONSVTY 315</td>
<td>POPULAR PIANO STYLES</td>
<td>Course covers techniques of leading piano stylists from early ragtime to the present. Includes listening, analysis, arranging, and performing. Prerequisite: Completion of Piano Proficiency Exam or consent of the instructor.</td>
</tr>
<tr>
<td>CONSVTY 316</td>
<td>POPULAR GUITAR STYLES</td>
<td>Course covers techniques of leading guitar styles from the 1920's to present. Includes listening, analysis, transcription, and performing. Prerequisite: Completion or credit by exam of CONSVTY 373G, or by consent of instructor.</td>
</tr>
<tr>
<td>CONSVTY 318</td>
<td>JAZZ EAR TRAINING AND LISTENING</td>
<td>This course offers the student basic fundamental techniques needed to improve aural perceptions in both the translation of hearing into writing and the performance of reading into singing and playing in the jazz idiom. Introduction and practice in singing, aural recognition and writing of intervals and short, simple melodies. Also including rhythm, memory and improvisational drills. Prerequisite: CONSVTY 329 Advanced Ear Training</td>
</tr>
<tr>
<td>CONSVTY 319</td>
<td>OPERA ROLE PERFORMANCE</td>
<td>Preparation, rehearsal and performance of a role in an opera or music theatre production at UMKC. Credit for performance as part of the ensemble/chorus may be received from this course after the two chorus requirements are completed as part of the choral requirements. Credit for non-performing duties such as assistant directing or assistant stage managing may be available with approval of opera/music theatre staff. Prerequisite: Audition (generally held during the first week and a half of classes in the fall).</td>
</tr>
<tr>
<td>CONSVTY 320</td>
<td>MUSIC THEATRE ROLE PERFORMANCE</td>
<td>Perpetration, rehearsal and performance of a role in an opera or music theatre production at UMKC. Credit for performance as part of the ensemble/chorus may be received from this course after the two chorus requirements are completed as part of the choral requirements. Credit for non-performing duties such as assistant directing or assistant stage managing may be available with approval of opera/music theatre staff. Prerequisite: Audition (generally held during the first week and a half of classes in the fall).</td>
</tr>
<tr>
<td>CONSVTY 323</td>
<td>FORM AND ANALYSIS I</td>
<td>Application of theoretical principles of analysis to Western Art music. Prerequisite: CONSVTY 221.</td>
</tr>
<tr>
<td>CONSVTY 325</td>
<td>PIANO PEDAGOGY I</td>
<td>Survey of beginning methods and materials. Introduction to learning theories and teaching strategies for individual and group instruction.</td>
</tr>
</tbody>
</table>
CONSVTY 325 A  PIANO PEDAGOGY - SUPERVISED TEACHING I
Supervised practicum includes evaluation of teacher effectiveness and student musical growth. Must be taken concurrently with CONSVTY 325.

1 hr

CONSVTY 326  PIANO PEDAGOGY II
Prerequisite: CONSVTY 325.

2 hrs

CONSVTY 326 A  PIANO PEDAGOGY - SUPERVISED TEACHING II
Supervised individual and group teaching. Must be taken concurrently with CONSVTY 326. Prerequisite. CONSVTY 325A.

1 hr

CONSVTY 329  ADVANCED EAR TRAINING
Study of atonal and highly chromatic tonal aural problems, complex rhythms, and recognition of instruments.
Prerequisite: CONSVTY 222 or CONSVTY 222B or equivalent. May be repeated for credit.

2 hrs

CONSVTY 330  JAZZ COMPOSITION
This course encourages composers to work towards developing an individual writing style and controlling the melodic line in the Jazz idiom. It includes writing assignments, and end-of-the-semester writing projects that are performed by UMKC Jazz ensembles and/or top Kansas City professionals.

3 hrs

CONSVTY 331  ORCHESTRATION I
An introduction to the instruments of the symphony orchestra and rudiments of scoring. Classification of instruments and learning to write for all transposing instruments.
Prerequisites: CONSVTY 222 or CONSVTY 222B or consent of an instructor or Music theory I-IV.

2 hrs

CONSVTY 331 A  ORCHESTRATION I
An introduction to the instruments of the symphony orchestra and rudiments of scoring. Meets concurrently with CONSVTY 331; the third credit hour is required for music composition and music theory majors.
Prerequisites: CONSVTY 222 or CONSVTY 222B or consent of an instructor of Music Theory I-IV.

3 hrs

CONSVTY 333  ADVANCED COMPOSITION
Prerequisites: Cons. 222 or 222B and Cons. 234 or consent of the instructor. May be repeated for credit.

2 hrs

CONSVTY 335  ELECTRONIC MUSIC COMPOSITION
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: CONSVTY 236 or consent of instructor.

2 hrs

CONSVTY 349  JAZZ STYLE AND ANALYSIS
This class will be an in-depth study of the contributions of one or a select group of outstanding jazz composers, arrangers, performers, focusing on the solo and compositional output and specific innovations associated with that individual or group. May repeat for credit.
Content will vary from semester to semester.
Prerequisite: CONSVTY 353A History and Development of Jazz I

2 hrs

CONSVTY 351  HISTORY OF MUSIC IN WESTERN CIVILIZATION I
A chronological study of music in Western civilization with emphasis on periods and styles from early times to the death of Bach. Outside listening required.
Prerequisite: CONSVTY 150 and successful completion of Cons. 122 highly recommended, or by consent of the instructor.

3 hrs

CONSVTY 351 WI  HISTORY OF MUSIC IN WESTERN CIVILIZATION I - WRITING INTENSIVE
George Santayana once reasoned that if you cannot remember the past, you are condemned to repeat it. If that is the case, then as music students you all must ask how the music of the past can inform and change the music you make and make you better musicians. This class examines selected works from Western musical history and explores the biographical, stylistic, and aesthetic issues they raise. It seeks to hone your analytical skills through knowledge of stylistic features while introducing you to musical debates that still rage today.
Prerequisite: Must have a grade of "A" in CONSVTY 150, Completed ENGLISH 110 & ENGLISH 225, & Pass the WEPT.

3 hrs

CONSVTY 352  HISTORY OF MUSIC IN WESTERN CIVILIZATION II
A chronological study of music in Western civilization from 1750 to the present. Outside listening required.
Prerequisite: CONSVTY. 351.

3 hrs

CONSVTY 352 WI  HISTORY OF MUSIC IN WESTERN CIVILIZATION II - WRITING INTENSIVE
A chronological study of music in Western Civilization from 1750 to the present. Outside listening and writing projects required.
Prerequisites: CONSVTY 150 Pass the WEPT GPA of 3.5 or higher
Offered: Most semesters, at least once every academic year

3 hrs
CONSVTY 353 A  HISTORY AND DEVELOPMENT OF JAZZ I
History of Jazz from its beginning through the present, using recordings, films and musical examples. Emphasis on the major historical trends in Jazz, including Early Jazz, Ragtime, Dixieland, Swing, Bebop, Cool Jazz, Hard Bop, Free Jazz, Jazz-Rock Fusion and modern developments. This course makes use of the Marr Sound Archive, and is appropriate for all students throughout the UMKC Campus.
3 hrs

CONSVTY 353 B  HISTORY AND DEVELOPMENT OF JAZZ II
This course concentrates on the lives, bands, and works of people who have been instrumental in the development of the various jazz styles. In-depth analysis of major jazz figures including Louis Armstrong, Duke Ellington, Count Basie, Charlie Parker, Dizzy Gillespie, Thelonious Monk, Clifford Brown, Sonny Rollins, John Coltrane, Miles Davis, Wayne Shorter, and many others. This course is most appropriate for Jazz Studies majors, and other Conservatory students with some jazz background and knowledge of the fundamentals of music. This course makes use of the Marr Sound Archive. Prerequisite: CONSVTY 353A and consent of the instructor.
3 hrs

CONSVTY 357  CHORAL LITERATURE
Includes listening and analysis as they relate to programming and educational issues in choral ensemble setting. May be repeated for credit. Prerequisites: CONSVTY 380 or permission of instructor.
1 hr

CONSVTY 358  BAND LITERATURE
Includes listening and analysis as they relate to programming and educational issues in wind/percussion ensemble settings. May be repeated for credit. Prerequisites: CONSVTY 381 or permission of instructor.
2 hrs

CONSVTY 359  STRING LITERATURE
Includes listening and analysis as they relate to programming and educational issues in string ensemble settings. May be repeated for credit. Prerequisites: CONSVTY 381 or permission of instructor.
1 hr

CONSVTY 360  INTRODUCTION TO JAZZ, IMPROVISATION, AND POPULAR STYLES
A laboratory course for music students which includes a review of the basic history and concepts of jazz and other popular musical styles as well as an introduction to improvisational techniques.
1 hr

CONSVTY 362  PIANO LITERATURE II (CLASSICAL)
A survey through analysis, reading, listening, and performance of piano repertoire from 1750 (death of J.S. Bach) to 1828 (death of Schubert).
2 hrs

CONSVTY 368  ORCHESTRAL LITERATURE FOR TRUMPET
Intended to introduce students to the standard repertoire for orchestral trumpet; class meets once weekly for an hour. Students will be expected to prepare and play approximately a dozen works per semester, rotating parts in a full trumpet section. Prerequisite: Permission of faculty.
1 hr

CONSVTY 370  CHORAL/VOCAL TECHNIQUES
Laboratory applications of vocal pedagogy, ensemble rehearsal technique, literature selection, and performance practice. Students will participate in singing and observation activities in a large ensemble setting with an emphasis on critical analysis of technical and pedagogical issues. Prerequisites: CONSVTY 380 or permission of instructor.
2 hrs

CONSVTY 373 A  INSTRUMENTAL TECHNIQUES VIOLIN-VIOLA
1 hr

CONSVTY 373 B  INSTRUMENTAL TECHNIQUES CELLO-DOUBLE BASS
1 hr

CONSVTY 373 C  INSTRUMENTAL TECHNIQUES FLUTE AND CLARINET
1 hr

CONSVTY 373 D  INSTRUMENTAL TECHNIQUES TRUMPET-HORN
1 hr

CONSVTY 373 E  INSTRUMENTAL TECHNIQUES PERCUSSION
1 hr

CONSVTY 373 F  INSTRUMENTAL TECHNIQUES OBOE-BASSOON
1 hr
CONSVTY 373 G  INSTRUMENTAL TECHNIQUES GUITAR
1 hr

CONSVTY 373 H  INSTRUMENTAL TECHNIQUES TROMBONE-TUBA
1 hr

CONSVTY 373 I  INSTRUMENTAL TECHNIQUES SAXOPHONE-WIND REVIEW
1 hr

CONSVTY 373 N  SURVEY OF WIND AND PERCUSSION INSTRUMENTS
An overview of basic wind and percussion instruments used in public school settings. Includes embouchure formation, hand position, sound production, and pedagogical issues encountered in beginning situations.
1 hr

CONSVTY 373 P  SURVEY OF STRING INSTRUMENTS
An overview of basic string instruments used in public school settings. Includes hand position, bowing, sound production, and pedagogical issues encountered in beginning situations.
1 hr

CONSVTY 375 A  SPECIAL PERCUSSION METHODS FOR MUSIC THERAPY STUDENTS
Study of classroom and individual percussion techniques applicable to situations found in the field of music therapy. Prerequisites: None.
1 hr

CONSVTY 375 B  SPECIAL PERCUSSION METHODS FOR DANCE STUDENTS
A class of percussion techniques which stresses hand drumming skills and advanced rhythmic counting and analysis. Prerequisites: None.
1 hr

CONSVTY 376  ACCOMPANYING I
A course for piano majors designed to give experience in accompanying vocal and instrumental soloists and choral groups as well as experience in the keyboard skills of open score reading, transposition, harmonization, and reading of figured bass. Course includes lectures by members of the voice and instrumental faculty. Two class sessions and two hours of assigned accompanying per week.
2 hrs

CONSVTY 377  ACCOMPANYING II
Continuation of CONSVTY 376.
2 hrs

CONSVTY 378  BAND ENSEMBLE TECHNIQUES
Laboratory applications of wind/percussion pedagogy, ensemble rehearsal technique, literature selection, and performance practice. Students will participate in playing and observation activities in a large ensemble setting with an emphasis on critical analysis of technical pedagogical issues. Prerequisites: CONSVTY 381 and completion of large ensemble requirement or permission of instructor.
2 hrs

CONSVTY 379  STRING ENSEMBLE TECHNIQUES
Laboratory applications of string pedagogy, ensemble rehearsal technique, literature selection, and performance practice. Students will participate in playing and observation activities in a large ensemble setting with an emphasis on critical analysis of technical and pedagogical issues. Prerequisites: CONSVTY 381 or permission of instructor. Registration concurrent with final semester of large ensemble requirement.
1 hr

CONSVTY 380  BASIC CONDUCTING - CHORAL
A study of the basic techniques of all rhythms, patterns, subdivision of beats, dynamics, starting, stopping, and giving cues through conducting in class. Elementary study of the score as to form and harmonic content will be discussed. Prerequisite: CONSVTY 222A or CONSVTY 222B.
2 hrs

CONSVTY 381  BASIC CONDUCTING - INSTRUMENTAL
A study of the basic techniques of all rhythms, patterns, subdivision of beats, dynamics, starting, stopping, and giving cues through conducting in class. Elementary study of the score as to form and harmonic intent will be discussed. Prerequisite: CONSVTY 222A or CONSVTY 222B.
2 hrs

CONSVTY 382  CHORAL CONDUCTING
A study of choral techniques including voice tryouts, placement, attack, release, blend, vocal development, diction, and rehearsal techniques through actual experience of conducting in class. Prerequisite: CONSVTY 380. Mus. Ed.-Choral majors must take concurrently with CONSVTY 387.
2 hrs

CONSVTY 383  INSTRUMENTAL CONDUCTING
A study of instrumental conducting techniques through actual conducting situations in instrumental groups. Primary objective will be the study of instrumental rehearsal techniques. Prerequisite: CONSVTY 381. Mus. Ed.-Instrumental majors must take concurrently with CONSVTY 386.
CONSVTY 385  ELEMENTARY MUSIC METHODS FOR MUSIC MAJORS
Basic principles of curriculum planning for music education, investigation of current methods and approaches, and practical teaching experience in laboratory setting. For music majors and non-majors who have extensive musical backgrounds. Prerequisite: CONSVTY 222A or CONSVTY 222B.

3 hrs

CONSVTY 386  SECONDARY MUSIC METHODS - INSTRUMENTAL
The organization, scheduling and feeder-system techniques of beginning band and orchestral programs through high-school level instruction. Areas of study will include curriculum, pedagogical techniques, library facilities, bidding procedures, basic instrument techniques. To be taken concurrently with CONSVTY 383.

2 hrs

CONSVTY 387  SECONDARY MUSIC METHODS - CHORAL
The organization of junior and senior high school choral classes to include methods, materials and program building. To be taken concurrently with CONSVTY 382.

2 hrs

CONSVTY 391  BASIC PIANO TECHNOLOGY
Introduces the art of tuning by ear, including the discussion of historical temperaments that preceded equal temperament: explores the action mechanism and its influence on the production of musical tone. Prerequisite: CONSVTY 122 or consent of the instructor.

3 hrs

CONSVTY 404  JAZZ IMPROVISATION IV
This class is a continuation of Jazz Improvisation III. This course features in-depth analyses of the blues and free improvisation focusing on rhythm changes and bi-tonal/polytonal chords. Course includes an in-depth analysis of styles from Dixieland to contemporary jazz. A strong emphasis is placed on solo construction and development of individual styles. Prerequisite: CONSVTY 304 Jazz Improvisation III or consent of the instructor.

2 hrs

CONSVTY 405  INTRODUCTORY FOUNDATIONS IN THE ARTS
The course will concentrate on the development of a philosophical, historical and social model to assist in understanding the complexities, strengths and problems of the arts in the context of present day education.

3 hrs

CONSVTY 406  INFLUENCE OF MUSIC ON BEHAVIOR
Explores the physiological, psychological and social influences of music on behavior. Although for music therapy practice it may also be of interest to other music majors and/or allied health professionals. Prerequisite: Completion of applied music 202 (2 hours) required of music majors. Completion of CONSVTY 128, CONSVTY 130 & CONSVTY 180 for music therapy majors or consent of the instructor.

3 hrs

CONSVTY 407  AUDIO INTERN PROGRAM
Practical recording experience interning with Conservatory recording and music production labs with one lecture weekly. Prerequisite: consent of the instructor.

1-3 hrs

CONSVTY 408  MUSIC IN THERAPY: ADULTS
Lecture and clinical demonstration of theory and practice of music therapy with adult clients. Prerequisites: Must take concurrently with CONSVTY 210E, Clinical Experience V.

3 hrs

CONSVTY 409  MUSIC IN THERAPY: CHILDREN
Lecture and clinical demonstrations of theory and practice of music therapy with children. Prerequisites: Must take concurrently with CONSVTY 210F, Clinical Experience VI.

3 hrs

CONSVTY 410  INTERNSHIP
1040 hours of supervised clinical experience at a site approved by the American Music Therapy Association, to be taken after all other course work for the music therapy degree is completed.

1-4 hrs

CONSVTY 411 A  FIELD EXPERIENCE IN MUSIC
To introduce music students to a critical examination of the complex nature of teaching, learning, children, and the music classroom/ensemble setting. Students will be expected to spend 30 hours observing, participating, planning and teaching in an assigned music classroom environment during the semester. Prerequisite: Permission of faculty

1 hr

CONSVTY 411 B  FIELD EXPERIENCE IN MUSIC
To introduce music students to secondary school settings and further develop observation, planning and teaching skills. Students will be expected to spend 30 hours in a middle/junior high school music classroom and 30 hours in a high school music classroom for a total of 60 hours during the semester. To be taken concurrently with CONSVTY 386 OR CONSVTY 387. Prerequisites: CONSVTY 411A or permission of faculty

1 hr

CONSVTY 411 C  FIELD EXPERIENCE IN MUSIC
To introduce music students to elementary school music settings and continue to refine observation, planning and teaching skills in secondary school music settings. Students will be expected to spend 30 hours in an elementary school music classroom and 30 hours in either a middle school/junior high or high school music classroom. To be taken concurrently with CONSVTY 385. Prerequisites: CONSVTY 411B or permission of faculty
1 hr

CONSVTY 412 A  STUDENT TEACHING MUSIC IN ELEMENTARY SCHOOL
Observation, planning and teaching in an elementary music classroom setting. Students will be expected to spend a minimum of seven weeks teaching full-time under supervision. Prerequisite: CONSVTY 411C

4-12 hrs

CONSVTY 412 B  STUDENT TEACHING MUSIC IN SECONDARY SCHOOL
Observation, planning and teaching in a middle school/junior high or high school music classroom setting. Students will be expected to spend a minimum of seven weeks teaching full-time under supervision. Prerequisite: CONSVTY 411C

4-12 hrs

CONSVTY 417  OPERA WORKSHOP
Introduction to opera and opera performance techniques. Class will include performance of opera scenes. Prerequisite: consent of the instructor. May be repeated for credit.

2 hrs

CONSVTY 417 A  SINGING/ACTING TRAINING FOR MUSIC THEATRE
Specific training especially tailored for incoming undergraduate BA in Music/Theatre Concentration students and others interested in Introductory acting and singing/acting techniques. Recommended for Freshman or Sophomore performance track students. Prerequisite: Admission into the BA in Music/Theatre Concentration program OR permission of Instructor. An audition may be required.

2 hrs

CONSVTY 417 B  SINGING/ACTING TRAINING FOR OPERA
Specific training especially tailored for undergraduate Vocal Performance majors and others interested in introduction Singing/Acting techniques for opera. Recommended for singers in their sophomore or junior years. This course IS NOT OPEN to Freshmen. Prerequisite: Admission into the BM vocal performance degree program OR permission of Instructor. An audition may be required.

2 hrs

CONSVTY 417 C  OPERA FOR CHILDREN/CHAMBER OPERA
Preparation, rehearsal and performance of an outreach opera. Offerings range from a work specifically for children, a cut-down version of a full-length opera, and occasional full-length operas in areas of repertoire not featured in the main-stage opera season. Performed off campus in conjunction with the student opera-lovers organization, Bravi. Prerequisite: Audition (Generally held during the first two weeks of the fall Semester).

2 hrs

CONSVTY 417 D  MUSIC THEATRE REVIEW/SCENES
Preparation, rehearsal and performance of an existing or original review and/or scene work. Productions will vary from year to year. Existing works maybe performed if and only if the music theatre budget allows for proper licensing, rights and rentals. Performances of final production projects may occur off campus. Prerequisite: Successful completion of CONSVTY 417A Singer/Actor Techniques for Music Theatre or permission of instructor. (Audition may be required.)

2 hrs

CONSVTY 417 E  SCENE STUDY
Preparation, rehearsal and performance of scenes from opera, operetta and music theatre. Scenes will be determined and assigned based on student's needs and development. One-act operas may also occasionally be produced in this class. Prerequisite: Permission of Instructor. Audition may be required.

2 hrs

CONSVTY 417 F  ADVANCED OPERA WORKSHOP
Singer/Actor techniques, dramatic preparation of arias, audition techniques, recitative and role study. Prerequisite: Undergraduates: Successful completion of CONSVTY 417B and permission of Voice teacher highly recommended, as several areas and a role study project will be required for work in class.

2 hrs

CONSVTY 421 A  MUSIC THEORY REVIEW FOR GRADUATE STUDENTS
An intensive review with emphasis placed on analysis. Open to graduate students only. MAY NOT BE USED ON A PLANNED PROGRAM.

1-3 hrs

CONSVTY 421 B  EAE TRAINING AND SOLFEGE FOR GRADUATE STUDENTS
An intensive review of ear training and sight singing. Open to graduate students only. MAY NOT BE USED ON A PLANNED PROGRAM.

1-3 hrs

CONSVTY 423  BUSINESS JAZZ AND COMMERCIAL MUSIC
An introduction to the various elements of the music industry, including production, marketing, unions, contracts, broadcasting, licensing agreements and copyrights.

3 hrs

CONSVTY 424  ACOUSTICS
Study of the propagation of sound, the psychology and physiology of hearing, the acoustics of instruments, and of rooms, and tuning systems. Available for graduate credit.

3 hrs

CONSVTY 425 A  ARRANGING FOR CHORAL GROUPS
Practice in transcribing vocal music of the current pop idiom. Analysis and writing in contemporary harmonic idioms. Stylistic analysis of solo and choral writing in operettas and musical plays. Scoring for mixed voices, men's voices, and women's voices. Prerequisite: CONSVTY 222A or CONSVTY 222B.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 425 B</td>
<td>Arranging Instrumental</td>
<td>2 hrs</td>
<td>Prerequisite: CONSVTY 222 or CONSVTY 222B or recommendation of an instructor of Music Theory I-IV.</td>
</tr>
<tr>
<td>CONSVTY 426 B</td>
<td>Jazz Arranging for Small Ensembles</td>
<td>2 hrs</td>
<td>This course will teach the art of Calligraphy as well as the techniques of arranging and orchestra for small jazz ensembles for up to five horns. The course will also include an in-depth study of basic voicings, instrumental sonorities, and some extended forms using intensive listening and score study. UMKC combos, or top Kansas City professionals, will perform final assignments. Prerequisite: CONSVTY 222 Music Theory I or consent of the instructor.</td>
</tr>
<tr>
<td>CONSVTY 426 D</td>
<td>Jazz Arranging for Big Bands</td>
<td>2 hrs</td>
<td>This course is a continuation of Jazz Arranging for small ensembles. It will cover the basics of arranging and orchestration techniques for big bands. It includes an in-depth study of basic voicing and instrumental sonorities using intensive listening and score study. The students will have a chance to hear their final arrangements performed at the end of the semester by the Concert Jazz Band. Prerequisite: CONSVTY 426B</td>
</tr>
<tr>
<td>CONSVTY 427</td>
<td>18th Century Counterpoint I</td>
<td>2 hrs</td>
<td>Analysis and writing in 18th century style and forms including canon, invention and fugue. Prerequisite: CONSVTY 222 or CONSVTY 222B or recommendation of an instructor of Music Theory I-IV.</td>
</tr>
<tr>
<td>CONSVTY 428</td>
<td>Contemporary Harmonic/Counterpoint Style</td>
<td>3 hrs</td>
<td>Analysis and writing in contemporary styles. Prerequisite: CONSVTY 222 or recommendation of an instructor of Music Theory I-IV.</td>
</tr>
<tr>
<td>CONSVTY 431</td>
<td>Orchestration III</td>
<td>2 hrs</td>
<td>A course for composition majors. A detailed study of the scores of Debussy, Ravel, Bartok, Stravinsky, Berg, and others, with their application. Combining the full orchestral forces with voices, solo and choral. May be repeated for credit. Prerequisite: CONSVTY 331A or consent of the instructor.</td>
</tr>
<tr>
<td>CONSVTY 433</td>
<td>Composition Recital</td>
<td>3 hrs</td>
<td>Preparation and performance of the student's original compositions at one or more concerts sponsored by UMKC Conservatory of Music, with a total of 50 to 60 minutes performance time. Prerequisite: 6 hours of CONSVTY 333, approval of major status by the Composition Division, and consent of the instructor.</td>
</tr>
<tr>
<td>CONSVTY 434</td>
<td>The Practice and Study of Creativity</td>
<td>3 hrs</td>
<td>A team-taught, multidisciplinary cluster course for undergraduate students that fosters awareness of the nature and power of students' creativity. Approximately one third of the class covers current literature on the creative process in general and in the arts. The remainder of the class utilizes the arts as a catalyst for students to design and implement creative group and individual projects that foster communication, remove barriers to creativity and combine creativity with discipline toward a common result. There are neither prerequisites nor expectations of arts-related abilities. The ideal class consists of 4-6 students from each of 3 areas - Arts; Science/Social Science/Business/Law; and Humanities/Education/General Studies.</td>
</tr>
<tr>
<td>CONSVTY 435</td>
<td>Psychological Foundations of Music</td>
<td>3 hrs</td>
<td>The study of the psychological aspects of music including perception, cognition, affect, and preference. An introduction measurement and experimental research including statistical techniques. Prerequisite: CONSVTY 260 or permission of instructor</td>
</tr>
<tr>
<td>CONSVTY 437</td>
<td>Computer Literacy for Music Teachers</td>
<td>3 hrs</td>
<td>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.</td>
</tr>
<tr>
<td>CONSVTY 440</td>
<td>Jazz Keyboard Techniques I</td>
<td>2 hrs</td>
<td>Class piano study of accompanying in basic jazz styles; technique (arpeggiated seventh chords, major, minor and diminished); scales (pentatonic, dorian, phrygian, lydian, mixolydian); advanced harmonizations and resolutions in all major keys; modulations from full diminished seventh chords; introduction to American song literature for sight reading and performance (Arlen, Ellington, Gershwin, etc.); harmonization at sight from chord sheets. Prerequisite: Completion of piano proficiency or consent of instructor.</td>
</tr>
<tr>
<td>CONSVTY 441</td>
<td>Jazz Keyboard Techniques II</td>
<td>2 hrs</td>
<td>A continuation of CONSVTY 440. Prerequisite: CONSVTY 440 or consent of the instructor.</td>
</tr>
<tr>
<td>CONSVTY 449</td>
<td>Introduction to Arts Administration</td>
<td>3 hrs</td>
<td>This course is designed to be an overview of topics of importance to arts organizations including organizational culture, leadership, marketing, media relations, fundraising, facilities management, and audience building. Students will review current literature in this area and develop a project related to their particular area of interest.</td>
</tr>
</tbody>
</table>
CONSVTY 449 A  ARTS ADMINISTRATION PRACTICUM
This course is designed to give practical experience for students in the Introduction to Arts Administration class. The student will receive a placement with an arts organization to be determined by the instructor.

1 hr

CONSVTY 457  VOCAL LITERATURE I
Literature for the solo voice. A course covering the literature from 1600 to present times, illustrated by recordings and members of the class and the instructor. Prerequisite: upper division standing and consent of the instructor. Requirement for B.M. voice majors.

2 hrs

CONSVTY 458  VOCAL LITERATURE II
A continuation of CONSVTY 457.

2 hrs

CONSVTY 459  ADVANCED CHORAL LITERATURE
A survey of choral literature including the music of all periods, both sacred and secular, in both small and large forms. May be repeated for credit.

3 hrs

CONSVTY 461  PIANO LITERATURE III (ROMANTIC)
A survey through analysis, reading, listening, and performance of piano repertoire during the Romantic Period, culmination in the early 20th Century.

2 hrs

CONSVTY 462  PIANO LITERATURE II
Survey of composers and literature for the piano from the late-eighteenth through the twentieth centuries.

3 hrs

CONSVTY 464 A  WIND AND PERCUSSION LITERATURE PERCUSSION
A study of solo and ensemble literature for percussion.

2 hrs

CONSVTY 469  ORGAN LITERATURE II
A survey of organ music from 1750 to the present.

2 hrs

CONSVTY 470 A  INTRODUCTION TO PEDAGOGY AND LITERATURE WOODWINDS
A study of teaching techniques and materials and of solo and ensemble literature. Senior status required.

3 hrs

CONSVTY 470 B  INTRODUCTION TO PEDAGOGY AND LITERATURE BRASS
A study of teaching techniques and materials and of solo and ensemble literature. Senior status required.

3 hrs

CONSVTY 470 C  INTRODUCTION TO PEDAGOGY AND LITERATURE PERCUSSION
A study of teaching techniques and materials and of solo and ensemble literature. Senior status required.

3 hrs

CONSVTY 470 D  INTRODUCTION TO STRING LITERATURE AND PEDAGOGY
A study of teaching techniques and materials and solo and ensemble literature. Senior status required.

3 hrs

CONSVTY 471  JAZZ/COMMERICAL MUSIC PEDAGOGY
This course is designed to develop skills in the teaching of jazz and commercial music. Students will be exposed to a variety of materials, techniques and philosophies and trained in various techniques of rehearsing and conducting jazz ensembles, including the study of scores and recordings of different styles and rehearsal of the Conservatory’s jazz ensembles. Includes an emphasis on structuring jazz and studio music curriculum at the College level. Prerequisite: CONSVTY 381 Basic Conducting.

2 hrs

CONSVTY 476  ACCOMPANIMENT III
A course for piano majors designed to give experience in accompanying vocal and instrumental soloist and choral groups. One-hour class sessions and two hours of assigned accompanying per week.

1 hr

CONSVTY 477  ACCOMPANIMENT IV
Continuation of CONSVTY 476.

1 hr
CONSVTY 483  ADVANCED INSTRUMENTAL CONDUCTING
A review of techniques and musical styles of literature for all levels and all media through conducting in class.

2 hrs

CONSVTY 490  INDEPENDENT STUDY
Intensive reading, research projects, creative work, or special performance in the student's major field, selected by the student in consultation with the appropriate faculty. Prerequisite: Consent of the instructor.

1-3 hrs

CONSVTY 491 B  PEDAGOGICAL PRACTICES I VOICE

2 hrs

CONSVTY 491 C  PEDAGOGICAL PRACTICES I ORGAN

2 hrs

CONSVTY 491 K  PEDAGOGICAL PRACTICES I THEORY

3 hrs

CONSVTY 491 M  PEDAGOGICAL PRACTICES I GENERAL
The course will address a variety of aspects of the human relationships in music teaching/learning settings. Topics will include teacher/student relationships, large group dynamics (ensemble), one-on-one interaction (studio), time management, performance anxiety, productive practice, and the observation and assessment of musical behavior. A field observation component is included.

3 hrs

CONSVTY 492 B  PEDAGOGICAL PRACTICES II VOICE
A laboratory experience that includes teaching applied voice in preparation for an end of semester concert experience. The course content includes introduction to skill sets required for teaching applied voice and applied voice studio budget and organization. Prerequisite: 491B Pedagogical Practices I Voice

2 hrs

CONSVTY 492 C  PEDAGOGICAL PRACTICES II ORGAN

1 hr

CONSVTY 494  PERFORMANCE STYLES
A practical approach to the music of the Medieval, Renaissance, Baroque, Early Classical and Contemporary eras through performance. May be repeated for credit. Prerequisites: Completion of CONSVTY 122, audition and consent of the instructor.

2 hrs

CONSVTY 495  ADVANCED PIANO PEDAGOGY I
Study of basic pedagogical philosophies, objectives, and procedures of various music educators/programs. Psychological factors in the learning/teaching process. Survey of late elementary and early intermediate repertoire and materials. Prerequisite: CONSVTY 326 or consent of the instructor.

2 hrs

CONSVTY 495 A  ADVANCED PIANO PEDAGOGY - SUPERVISED TEACHING III
Supervised individual and group teaching. Must be taken concurrently with CONSVTY 495. Prerequisite: CONSVTY 326 or consent of the instructor.

1 hr

CONSVTY 496  ADVANCED PIANO PEDAGOGY II
Continuing study of intermediate repertoire with emphasis on performance. Seminars with master teachers. Supervised individual and group teaching. Prerequisite: CONSVTY 495 or consent of the instructor.

2 hrs

CONSVTY 496 A  ADVANCED PIANO PEDAGOGY - SUPERVISED TEACHING IV
Supervised individual and group teaching. Must be taken concurrently with CONSVTY 496. Prerequisite: CONSVTY 495 or consent of the instructor.

1 hr

CONSVTY 497  SEMINAR-WORKSHOP IN MUSIC
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

1-4 hrs

CONSVTY 497 AM  AMERICAN MUSIC COMPANY CHORAL READING SESSIONS

1-4 hrs

CONSVTY 497 AT  SEMINAR-WORKSHOP IN MUSIC

1-4 hrs
CONSVTY 497 CE  **Seminar-Workshop In Music**

1-4 hrs

CONSVTY 497 GA  **Seminar-Workshop In Music**
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

1-4 hrs

CONSVTY 497 IN  **Seminar-Workshop In Music**
Special courses in techniques, theory, and repertoire taught by the Conservatory staff and visiting specialists. As announced.

1-4 hrs

CONSVTY 497 JB  **Seminar-Workshop In Music: Music History Review (Late)**

1-4 hrs

CONSVTY 497 OU  **Seminar-Workshop In Music**

1-4 hrs

CONSVTY 497 PC  **Seminar-Workshop In Music**

1-4 hrs

CONSVTY 497 PL  **Seminar Workshop In Music**

1-4 hrs

CONSVTY 497 PO  **Seminar Workshop In Music**

1-4 hrs

CONSVTY 497 PP  **Seminar Workshop In Music**

1-4 hrs

CONSVTY 497 SA  **Seminar-Workshop In Music**

1-4 hrs

CONSVTY 497 SI  **Seminar-Workshop In Music**

1-4 hrs

CONSVTY 497 SV  **Seminar-Workshop In Music**

1-4 hrs

CONSVTY 497 TE  **Orff Schulwerk Level I & II**

1-4 hrs

CONSVTY 497 WE  **Seminar-Workshop In Music**

1-4 hrs

**CONSVTY 498  Research Problems**
Individual study under the direction of a faculty adviser, leading to the writing of a formal paper. A public, non-graded presentation of the paper with performance examples is required.

Prerequisites: None.

2 hrs

**CONSVTY H120  Music Appreciation**
Designed for the general University student with little or no music background and required for Dance Majors (no credit for music majors). An emphasis on the basic elements of music and the historical and stylistic periods, illustrated by examples from different genres, such as instrumental and vocal ensembles, large and small, solo literature for voice and instruments, and dance. Three class sessions a week with frequent live performance and guest speakers.

3 hrs
DANCE 106  COMPUTER TECHNOLOGY FOR DANCE  
This course will not only give basic computer knowledge but will give students the tools to visualize and chronicle dance steps or entire routines in an easy-to-use 3D environment. The students will use these tools to create choreography and to inform interdisciplinary arts and dance technology projects that will be implemented into the Advanced Composition course. Prerequisite: DANCE 218A Composition I.  
3 hrs

DANCE 107  DANCE PRODUCTION I  
A study of the fundamentals of dance production including planning and organization, programming and publicity, lighting design for dance, sound and recording techniques, costume design and construction, and stage make-up. Laboratory projects will be coordinated with actual dance productions.  
2 hrs

DANCE 108  DANCE PRODUCTION II  
Continuation of CONSVTY 107.  
2 hrs

DANCE 140 A  ANALYSIS OF MOVEMENT FOR THE DANCE I  
A study of the structure of classical ballet steps and movements including basic anatomy, vocabulary and aesthetics of ballet. Restricted to dance majors.  
1 hr

DANCE 140 B  ANALYSIS OF MOVEMENT FOR THE DANCE II  
Continuation of CONSVTY 140A.  
1 hr

DANCE 141 B  BALLET TECHNIQUE AND THEORY I  
Fundamentals of classical ballet including beginning pointe work. Non-Majors by audition.  
3 hrs

DANCE 141 M  MODERN DANCE TECHNIQUE AND THEORY I  
Techniques of Contemporary dance. Non-Majors by audition.  
3 hrs

DANCE 142 B  BALLET TECHNIQUE AND THEORY II  
Continuation of DANCE 141B.  
3 hrs

DANCE 142 M  MODERN DANCE TECHNIQUE AND THEORY II  
Techniques of Contemporary dance. Non-Majors by audition.  
3 hrs

DANCE 213 C  MEN'S CLASS I  
This course is designed to meet the needs of the male dancer and will focus on developing the technique, strength, and agility needed for a professional career.  
1 hr

DANCE 213 D  MEN'S CLASS II  
Continuation of DANCE 213A.  
1 hr

DANCE 217 A  IMPROVISATION I  
An introduction to the use of Improvisation as a method of discovering through problem-solving a kinesthetic body language through immediate and logical motile responses to given problems involving a body or bodies as they relate to time, space, energy, and force. For Dance majors.  
1 hr

DANCE 217 B  IMPROVISATION II  
The continued study of the use of improvisation as a learned skill which can be used as a vehicle for finding precompositional movement material used in making dances. For Dance majors.  
1 hr

DANCE 218 A  COMPOSITION I  
An introduction to the fundamentals of choreography, including the development of dance compositions through the exploration and definition of specific studies, including floor design, shape design, motion design, and time design. For Dance majors.  
2 hrs

DANCE 218 B  COMPOSITION II  
The continued exploration of the fundamentals of choreography including locomotion studies, categories of motion, axial movement and sequential and non-sequeter movement. Prerequisite: DANCE 218A.
2 hrs
DANCE 241 B  BALLET TECHNIQUE AND THEORY III
Continuation of DANCE 141B, DANCE 142B on the intermediate level including Beginning Pas de Deux.

3 hrs
DANCE 241 M  MODERN DANCE TECHNIQUE AND THEORY III
Continuation of DANCE 141M, on the intermediate level.

3 hrs
DANCE 242 B  BALLET TECHNIQUE AND THEORY IV
Continuation of DANCE 141B, DANCE 142B on the intermediate level including Beginning Pas de Deux.

3 hrs
DANCE 242 M  MODERN TECHNIQUE AND THEORY IV
Continuation of DANCE 142M, on the intermediate level.

3 hrs
DANCE 250  LABANOTATION I
An introduction to basic theory and elementary skills of labanotation.

2 hrs
DANCE 260  JAZZ I
A study of Western Theatrical Dance focusing on Jazz and Musical Theater dance forms.

1 hr
DANCE 261  JAZZ II
The continued study of Western Theatrical Dance focusing on Jazz and Musical Theater dance forms.

1 hr
DANCE 301  ADVANCED MOVEMENT ANALYSIS FOR DANCERS
A study of the body which relates specifically to the needs of dancers. Emphasis is placed upon an understanding of the skeletal system, the muscular system, their specific importance to dance technique, and dance injuries and prevention. Three hours lecture per week. Prerequisites: Dance major.

3 hrs
DANCE 302  FUNDAMENTALS OF BODY ALIGNMENT
An introduction to the fundamentals of body alignment, including therapeutic exercises which focus on muscular imbalances and injury prevention. Emphasis is placed upon developing total body strength and flexibility. Required for dance majors or by permission of instructor. Prerequisite(s) DANCE 301 Advanced Movement Analysis for Dancers.

1 hr
DANCE 303  PILATES
A non-impact body conditioning method based on principles of abdominal and scapular stabilization. Introduction to the essential and intermediate mat work, which consists of non-weight bearing exercises. Designed to give the student an understanding of the principles and muscular emphasis behind the pilates method. Proper alignment, full range of motion, and patterned breathing will be emphasized. Prerequisite: DANCE 301 and DANCE 302.

1 hr
DANCE 305  HISTORY OF DANCE I
A study of the development of Western Theatrical Dance from the Renaissance Court Dances to 20th Century contemporary ballet. Outside reading and written reports required. Offered: Fall.

3 hrs
DANCE 306  HISTORY OF DANCE II
A study of the development of Modern Dance from the late 19th Century through the 20th Century. Outside reading and written reports required. Offered: Winter.

3 hrs
DANCE 309 B  COMPANY
A repertory company comprised of dance majors, selected guest artists and dance faculty for the preparation and public performance of choreographic works, concerts and lecture/demonstrations directed by resident faculty and guest choreographers.

1 hr
DANCE 310 A  PIERROUETTE CLASS I
This course is designed to teach and develop the technical skills needed for turns. It will be offered for 200-400 level dance students and will focus on intermediate and advanced turns and turn combinations. This specialized class will allow the student to focus and work on turning techniques and identify problem areas such as spotting, balance, force and control. Prerequisites: DANCE 241B (ballet) or DANCE 241M (modern) or higher.

1 hr
DANCE 310 B  PIERROUETTE CLASS II
Continuation of DANCE 310A. Prerequisites: DANCE241B (ballet) or DANCE 241M (modern) or higher.
DANCE 313 A  PARTNERING/PAS DE DEUX I
This course is designed to meet the needs of the 300 level ballet student and will teach the elementary skills of partnering such as turns, lifts, promenades, and balances. Prerequisites: DANCE 341B Ballet Technique and Theory V or higher.

1 hr

DANCE 313 B  PARTNERING/PAS DE DEUX II
Continuation of DANCE 313A. Prerequisites: DANCE 341B Ballet Technique and Theory V or higher.

1 hr

DANCE 316 A  PERFORMANCE TECHNIQUES I
A four-semester class rotation focusing on performance techniques of folk and character dances of various countries, traditional vocabulary of pantomime gestures, and theatrical dance forms including tap and jazz styles.

1 hr

DANCE 316 B  PERFORMANCE TECHNIQUES II
A four-semester class rotation focusing on performance techniques of folk and character dances of various countries, traditional vocabulary of pantomime gestures, and theatrical dance forms including tap and jazz styles.

1 hr

DANCE 319 A  COMPOSITION III
An intermediate course in Dance Composition focusing on choreographing works through the exploration of movement such as theme and variation, gesture, chance dance, poetry and narration, costume and musical forms as structural frameworks for making dances. Prerequisite: DANCE 218B.

2 hrs

DANCE 319 B  COMPOSITION IV
A continuation of the intermediate course in Dance Composition focusing on choreographing solo and group works in the Ballet and Modern idioms, as well as preparation of works for the senior recital. Prerequisite: DANCE 319A.

2 hrs

DANCE 341 B  BALLET TECHNIQUE AND THEORY V
Continuation of DANCE 242B on the advanced level. (Modern emphasis students - minimum of 3 classes weekly required (MWF) (2 hrs.).

3 hrs

DANCE 341 M  MODERN DANCE TECHNIQUE AND THEORY V
Continuation of DANCE 242M on the advanced level. (Ballet emphasis students - minimum of 3 classes weekly required (MWF) 2 hrs.)

3 hrs

DANCE 342 B  BALLET TECHNIQUE AND THEORY VI
Continuation of DANCE 341B.

3 hrs

DANCE 342 M  MODERN DANCE TECHNIQUE AND THEORY VI
Continuation of DANCE 341M.

3 hrs

DANCE 403 A  MODERN TECHNIQUE FOR NON-MAJORS

1 hr

DANCE 404 A  BALLET TECHNIQUE FOR NON-MAJORS I
The applied and theoretical study of ballet including ballet pedagogy, analysis of movement and traditional ballet vocabulary. Outside reading and written reports required.

1 hr

DANCE 404 B  BALLET TECHNIQUE FOR NON-MAJORS II
The applied and theoretical study of ballet, including ballet pedagogy, analysis of movement, and traditional ballet vocabulary. Outside reading and written reports required.

1 hr

DANCE 405 A  MODERN DANCE REPERTORY I
Modern Dance Repertory is an advanced course for modern dance majors to study and perform the repertoire and works of renowned contemporary choreographers. It is a parallel to the Ballet Variations course which teaches the repertoire of ballet master works. Prerequisites: DANCE 341M Modern Dance Technique and Theory V or higher

1 hr

DANCE 405 B  MODERN DANCE REPERTORY II
Continuation of DANCE 405A. Prerequisites: DANCE 341M Modern Dance Technique and Theory V or higher.
1 hr
DANCE 405 C  MODERN DANCE REPETORY III
Continuation of DANCE 405B. Prerequisite(s): DANCE 341M Modern Dance Technique and Theory V or higher.

1 hr
DANCE 405 D  MODERN DANCE REPETORY IV
Continuation of DANCE 405C. Prerequisite(s): DANCE 341M Modern Dance Technique and Theory V or higher.

1 hr
DANCE 413 A  ADVANCED PAS DE DEUX I
This course is designed to meet the needs of the 400 level ballet student and will teach advanced pas de deux skills. The students will have opportunity to learn pas de deux from great ballets which will give students a hands-on experience, perfecting their partnering skills. Prerequisites: DANCE 441B Ballet Technique and Theory VII or higher.

1 hr
DANCE 413 B  ADVANCED PAS DE DEUX II
Continuation of DANCE 413A. Prerequisites: DANCE 441B Ballet Technique and Theory VII or higher.

1 hr
DANCE 414 A  MEN'S VARIATIONS I
Men's Variations is designed for 400 level male ballet dancers. Students will have the opportunity to learn and perform renowned variations from the Romantic, Classical, and Neo-Classical periods of ballet. This class will give the male student a true professional coaching experience in their training as they prepare for stage. Prerequisites: DANCE 342B Ballet Techniques and Theory VI

1 hr
DANCE 414 B  MEN'S VARIATIONS II
Continuation of DANCE 414A. Prerequisite: DANCE 342B Ballet Techniques and Theory VI

1 hr
DANCE 415 A  VARIATIONS I
Variations is designed for the 400 level ballet student. The course will teach female variations to the advanced students and the students will have the opportunity to learn and perform renowned variations from Romantic, Classical and Neo-Classical periods of ballet. The students will also work each class in traditional tutus in order to give them a true professional experience in their training as they prepare for the stage. Prerequisites: DANCE 342B Ballet Technique and Theory VI

1 hr
DANCE 415 B  VARIATIONS II
Continuation of DANCE 415A. Prerequisites: DANCE 342B Ballet Technique and Theory IV

1 hr
DANCE 415 C  VARIATIONS III
Continuation of DANCE 415B. Prerequisite(s): DANCE 342B Ballet Technique and Theory VI or consent of instructor.

1 hr
DANCE 415 D  VARIATIONS IV
Continuation of DANCE 415C. Prerequisite(s): DANCE 342B Ballet Technique and Theory VI or consent of instructor.

1 hr
DANCE 416 A  PERFORMANCE TECHNIQUES III
A four-semester class rotation focusing on performance techniques of folk and character dances of various countries, traditional vocabulary of pantomime gestures, and theatrical dance forms including tap and jazz styles.

1 hr
DANCE 416 B  PERFORMANCE TECHNIQUES IV
A four-semester class rotation focusing on performance techniques of folk and character dances of various countries, traditional vocabulary of pantomime gestures, and theatrical dance forms including tap and jazz styles.

1 hr
DANCE 441 B  BALLET TECHNIQUE AND THEORY VII
Continuation of DANCE 342B on the advanced level. (Modern emphasis students - minimum of 3 classes per week required (MWF) 2 hrs.)

3 hrs
DANCE 441 M  MODERN DANCE TECHNIQUE AND THEORY VII
Continuation of DANCE 243M on the advanced level. (Ballet emphasis students - minimum of 3 classes per week required. (MWF) 2 hrs.)

3 hrs
DANCE 442 B  BALLET TECHNIQUE AND THEORY VIII
Continuation of DANCE 441B.
DANCE 442 M  MODERN DANCE TECHNIQUE AND THEORY VIII
Continuation of DANCE 243M on the advanced level. (Ballet emphasis students - minimum of 3 classes per week required. (MWF) 2 hrs.)

3 hrs

DANCE 493  SENIOR RECITAL I
The planning, organization and preparation for the requirements for Senior Recital including selection of repertoire, aspects of technical production and creation of original choreographic works in solo and group form.

1 hr

DANCE 494  SENIOR RECITAL II
The culminating preparation and juried public performance in three dance forms including the completion, rehearsal and mounting of original choreographic works in solo and group form.

1 hr

DANCE 497  MODERN DANCE TECHNIQUE AND THEORY

PERCUSSION
PERCSN 100 A  PREPARATORY APPLIED STUDY
One hour weekly lesson. Limited to two semesters study. Jury examination is required. There shall be a jury which shall be for comments only unless the student is applying for entrance to the 101 level, at which time a graded jury is required. May not be taken for credit towards the major. Consent of the instructor.

2 hrs

PERCSN 100 B  APPLIED STUDY OF A SECOND INSTRUMENT
Applied study of a second instrument. One-half hour lesson weekly. Applied study for those students who wish to pursue applied study in an area other than, and in addition to, their primary performance study. No jury examination is required. Consent of the instructor.

2 hrs

PERCSN 100 C  APPLIED STUDY FOR THE NON-MUSIC MAJOR
Applied study for the non-music major. One-half hour lesson weekly. No jury required. Consent of the instructor.

2 hrs

PERCSN 100 D  APPLIED STUDY FOR THE NON-MUSIC MAJOR

1 hr

PERCSN 101  FRESHMAN PERCUSSION I

2-4 hrs

PERCSN 102  FRESHMAN PERCUSSION II

2-4 hrs

PERCSN 201  SOPHOMORE PERCUSSION I

2-4 hrs

PERCSN 202  SOPHOMORE PERCUSSION II

2-4 hrs

PERCSN 301  JUNIOR PERCUSSION I

2-4 hrs

PERCSN 301 J  JUNIOR PERCUSSION I (JAZZ)

2 hrs

PERCSN 302  JUNIOR PERCUSSION II

2-4 hrs
PERCSN 302 J  JUNIOR PERCUSSION II (JAZZ)
2 hrs

PERCSN 401  SENIOR PERCUSSION I
2-4 hrs

PERCSN 401 J  SENIOR PERCUSSION I (JAZZ)
2 hrs

PERCSN 402  SENIOR PERCUSSION II
2-4 hrs

PERCSN 402 J  SENIOR PERCUSSION II (JAZZ)
2 hrs

School of Dentistry

SCHOOL OF DENTISTRY COURSES

DENTISTRY (DENT)

DENT-HYG 3000  DENTAL MORPHOLOGY AND OCCLUSION
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.
2 hrs

DENT-HYG 3020  DENTAL RADIOLOGY
Lecture and clinical practice of dental radiographic procedures. Topics included are radiation hygiene, taking and developing radiographs, processing and mounting films, and radiographic interpretation. Clinical experience is required throughout the remaining semesters.
2 hrs

DENT-HYG 3080  INTRODUCTION TO THE PREVENTIVE PRACTICE OF DENTAL HYGIENE
This course will introduce theories and rationales for basic clinical dental hygiene care (infection control, oral examination and fundamentals of instrumentation). Practical application of specific clinical skills will be introduced in the classroom and applied in the clinical setting, DENT-HYG H3080L.
4 hrs

DENT-HYG 3080 L  PRECLINICAL DENTAL HYGIENE
Practical application of the fundamental concepts and principles of patient care in a diverse society discussed in DENT-HYG H3080. Emphasis is placed on patient assessment and techniques of instrumentation for examination and dental hygiene treatment. After the student has mastered basic skills, he/she will begin to provide direct dental hygiene services.
2 hrs

DENT-HYG 3200  HISTOPATHOLOGY
An introduction to the principles of general pathology and organ system pathology including inflammation, immunity and diseases of immune origin, genetic diseases, neoplasia with emphasis on oral cancer, and diseases of selected organ systems including pulmonary, cardiovascular, hematopoietic, endocrine, skeletal, gastrointestinal/hepatic, pancreatic and other systems as time permits.
3 hrs

DENT-HYG 3210  APPLIED BIOCHEMISTRY
This course is designed to build upon previous knowledge of chemistry, biology, and physiology as a basis for understanding principles in biochemistry. Presented through a self-paced online format, course content is selected to provide the foundation knowledge in biochemistry needed for subsequent courses in nutrition, pathology, and other health related topics.
2 hrs

DENT-HYG 3220  DENTAL BIOMATERIALS
This course is designed to provide the dental hygiene student with a sound knowledge base in the science and manipulation of dental biomaterials. Through lectures and laboratory session, the student’s ability to make clinical judgments regarding the application of dental biomaterials and the ways in which materials react to the oral environment will be enhanced.
2 hrs

DENT-HYG 3260  PRINCIPLES OF PERIODONTICS
This course in Periodonotics will cover the biological and clinical aspects of periodontal health and pathology. An introduction to the supporting structures of the teeth will provide the foundation of understanding pathogenesis, histopathology and subsequent therapeutic treatment of periodontal diseases. The dental hygienist’s role in recognition, prevention and treatment of periodontal diseases and maintenance of periodontal health is examined.
3 hrs

DENT-HYG 3280 C  DENTAL HYGIENE CLINIC I
Students will further develop clinical skills and techniques learned in DENT-HYG 3080L and previous courses by providing services to patients.
3 hrs
DENT-HYG 3285  SEMINAR IN DENTAL HYGIENE I
This course expands on theory and background presented in DENT-HYG 3080. Topics include expanding dental hygiene skills required for the care of patients and continued development of problem solving abilities and critical thinking skills as they relate to the provision of dental hygiene care. Provide students with a more insightful view of the role of the dental hygienist in the delivery of comprehensive patient care. Offered: Winter

2-3 hrs

DENT-HYG 3300  RADIOGRAPHIC INTERPRETATION
The purpose of the course is to introduce interpretation of radiographic anomalies and pathology just prior to your clinical experience. Since there was little time for an emphasis on radiographic interpretation during your second year radiology course, this lecture and participation course supplement clinic instruction in diagnosis of the patient's oral needs and formulation of a treatment plan. Upon completion of this course, you should be able to recognize simple pathology and radiographic anomalies. Offered: Winter

0.5 hrs

DENT-HYG 3320  ORAL HEALTH EDUCATION
The purpose of this course is to prepare the beginning dental hygiene student to effectively fulfill the role of a dental health educator and initiator of preventive oral health programs for individuals of diverse backgrounds and needs. The steps involved in the development of an individual oral health program will be presented, as well as information on varying oral health products. The student will then have the opportunity to apply course concepts in the clinical setting.

2 hrs

DENT-HYG 3340  PRINCIPLES OF PUBLIC HEALTH
In this course the student will participate in service learning activities which require application of dental public health principles. Students will have the opportunity to assess a target population, plan, implement and evaluate appropriate programs. Students will also apply theories and skills of communication and education while preparing and presenting oral health education programs for various population groups.

2 hrs

DENT-HYG 4020  LOCAL ANESTHESIA AND PAIN CONTROL
This course is designed to prepare dental hygiene students for the safe, effective administration of local anesthesia and nitrous oxide sedation. Included are content areas in anatomy, physiology, pharmacology, and emergency management as they relate to the administration of local anesthetics, nitrous oxide, and pain control. Laboratory session are structured to develop actual experiences in administration of local anesthetics and nitrous oxide. Various mechanism for pain control are also covered. Methods of presentation include lecture, large group discussion, laboratory and clinical participation.

3 hrs

DENT-HYG 4040  INTRODUCTION TO RESEARCH AND INSTRUCTION
Introduction to research and instruction. The student will be introduced to the idea of scientific inquiry and the research process, in particular as it relates to securing content for teaching. Students will evaluate the usefulness of various databases as well as conduct productive database literature searches. Instructional topics will focus on current technologies such as: production of electronic presentations and handout materials, exporting images for inclusion in print and electronic educational presentation, and development of presentation skills to effectively conduct an educational session.

1-2 hrs

DENT-HYG 4050  PERIODONTOLOGY II
This course is designed to provide an introduction to Periodontics II and III therapy. Periodontal decision making will be emphasized. The dental hygienists' role in recognition, prevention and treatment of periodontal diseases and maintenance of periodontal health is further examined. Prerequisite: DENT-HYG 3620 Principles of Periodontics. Offered: Winter

2 hrs

DENT-HYG 4060 C  DENTAL HYGIENE CLINIC II
The student will continue to develop competency in basic dental hygiene skills. Principles of periodontal techniques, such as non surgical periodontal therapy, supportive treatment procedures and comprehensive patient care will be emphasized. The student will be asked to demonstrate professional management skills and productivity.

2 hrs

DENT-HYG 4065  SEMINAR IN DENTAL HYGIENE II
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.

1 hr

DENT-HYG 4080  INTRODUCTION TO RESEARCH DESIGN
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. It is recommended that this course be taken in the same semester as DENT-HYG 4620. Offered: Fall Semester on-site, (Summer Semester, on-line only).

2 hrs

DENT-HYG 4100  PHARMACOLOGY
Discussion of pharmacotherapeutic drugs, their classification, applications, administration, adverse effects, and interactions.

3 hrs

DENT-HYG 4120  SEMINAR IN DENTAL HYGIENE
This course is offered in conjunction with DENT-HYG 4120C Preventive Dentistry Clinic III, and is a part of the clinical education continuum. Major content emphasis includes developing problem solving abilities, managing patients with special needs and diverse backgrounds(ontology, gerontology and physical disabilities), and managing emergencies in the dental office. Skills in preventive treatment program planning and evaluation of patient care will be reinforced through community experiences and self reflection.

2 hrs

DENT-HYG 4120 C  DENTAL HYGIENE CLINIC III
The student will continue to develop competency in intermediate dental hygiene skills. Principles of periodontal techniques, such as root planning, pain control and supportive techniques will be stressed. Comprehensive treatment planning and implementation of comprehensive care to a diverse patient population will be the focus of this course. Continued development of professionalism, management and critical thinking skills will be emphasized.
This course is designed to introduce the student to issues encountered in higher education. Topics included are curriculum vitae and resume writing, interviewing skills, accreditation, promotion and tenure, portfolios and outcomes assessment, dental hygiene theory development, and various other topic areas. Offered: Winter Semester
This course is designed for the graduate and degree completion dental hygiene student. It will expand on the students' basic knowledge of the dental hygiene process of care. Current scientific literature related to the topic in dental hygiene and oral health will be examined to enhance background knowledge related to the dental hygiene process and foster an attitude of critical analysis and life long learning.

DENT-HYG 4620  PRINCIPLES IN DENTAL HYGIENE EDUCATION
Through individualized instruction, the student will have an introduction to educational concepts in preparation for student teaching. Topics included are goals and objectives, curriculum and course design, development of course syllabi, teaching/learning strategies, use of technology in teaching, basic principles of testing, micro-teaching demonstration, and student and self evaluation. It is recommended that this course be taken in the same semester as DENT-HYG 4680. Offered: Fall semester on-line only.

DENT-HYG 4625  DENTAL HYGIENE ADMINISTRATION
This course is designed for the post-certificate dental hygiene student. Major topic areas include accreditation of dental hygiene programs, the impact of National and State Board examinations on curriculum planning, selective admissions policies and procedures, faculty evaluation, promotion and tenure and students' rights. Offered: TBA

DENT-HYG 4630  PRACTICUM IN DENTAL HYGIENE ADMINISTRATION
Under the supervision of the Director of Dental Hygiene, the student will gain actual experiences in the daily administration of a dental hygiene program. The student may contract for responsibilities such as admissions, budget preparations, course scheduling, report writing and student academic counseling. Offered: TBA

DENT-HYG 4635  PRACTICUM IN CLINICAL SUPERVISION
Under the supervision and permission of the Dental Hygiene Clinical Supervisor, the student will gain actual experience in the duties involved in coordinating the clinical education of a dental hygiene student. The student may contract for responsibilities such as, coordinating mock board examinations, maintaining student clinical records, developing faculty and student clinic schedules and report writing. Offered: TBA

DENT-HYG 4640  STUDENT TEACHING AND CONFERENCE I
Under the direction of a supervising professor, the student may select teaching experience in the classroom areas of their choice. The student develops behavioral course objectives, comprehensive lesson plans, test and examination items, classroom presentations, and prepares student evaluations in the selected classroom teaching areas. The student may select teaching assignments in one of the developed externship student teaching programs. Conferences will be held in conjunction with the course. Students must complete DENT-HYG 4625 prior to enrolling in this course.

DENT-HYG 4645  STUDENT TEACHING AND CONFERENCE II
The student will continue to develop teaching skills in laboratory and/or classroom areas as selected by the student under the direction of a supervising professor. Students must complete DENT-HYG 4640 prior to enrolling in this course. Offered: TBA, on-line and on-site

DENT-HYG 4660  INDEPENDENT STUDY IN DENTAL HYGIENE
This course is designed for the dental hygiene student who desires independent study of a particular problem or area of interest in dental hygiene education. The student must have prior approval of the Director of Dental Hygiene before enrolling in this course. Offered: Fall, winter, summer.

DENT-HYG 4680  DENTAL HYGIENE CLINICAL INSTRUCTION I
Students must complete DENT-HYG 4640 prior to enrolling in this course. Continued development of competency as a clinical instructor under the supervision of the dental hygiene faculty. Requires a half-day in clinic student instructor. Offered: Fall on-line, on-site TBA

DENT-HYG 4685  DENTAL HYGIENE CLINICAL INSTRUCTION II
A continuation of DENT-HYG 4680 Dental Hygiene Clinical Instruction I. Under the supervision of the dental hygiene faculty, students may continue to develop skills as a dental hygiene clinical instructor. Students must complete DENT-HYG 4680 prior to enrolling in this course. Offered: TBA

DENT-HYG 4750  GERIATRIC ORAL HEALTH PROMOTION AND EDUCATION
This course is designed to enhance knowledge, attitudes, behavior and clinical care directed at geriatric oral health promotion and education. It is designed for dental hygienists and other health care providers who work with the older adult. Teaching methods include seminar, self-instructional modules and a community-based practicum. Offered: Fall Semester

School of Education

SCHOOL OF EDUCATION COURSES
COUNSELING PSYCHOLOGY AND COUNSELOR EDUCATION (CPCE)

CPCE 420  COUNSELING TECHNIQUES FOR EDUCATORS & OTHER HUMAN SERVICES PERSONNEL
Principles of effective communication and their evaluation. Techniques of listening, verbal and non-verbal communication and empathy will be emphasized, as well as crisis intervention.
CURRICULUM AND INSTRUCTION (EDCI)

EDUC-C&I 497  INDIVIDUAL STUDY
Guided study of a selected topic in curriculum and instruction. Prerequisite: Permission of instructor.
1-6 hrs

PHYSICAL EDUCATION (PE)

PHYS-ED 106  BADMINTON
This course teaches the basic rules, skill techniques, terminology and strategy for badminton. Fall/Winter.
1 hr

PHYS-ED 125  GOLF
1 hr

PHYS-ED 145  SOCIAL DANCE
1 hr

PHYS-ED 149  BASKETBALL AND TEAM HANDBALL
This course teaches the basic rules, skill techniques, terminology and strategy for basketball and team handball.
1 hr

PHYS-ED 153  VOLLEYBALL
1 hr

PHYS-ED 157  WEIGHT TRAINING
1 hr

PHYS-ED 158  ADVANCED WEIGHT TRAINING
This course teaches free weight training exercises that are used within a well-balanced training program, and provides experience needed to design weight training programs. Prerequisites: PHYS-ED 157 or permission of instructor.
1 hr

PHYS-ED 159  JOGGING
1 hr

PHYS-ED 174  CROSS TRAINING
This course provides knowledge, skill and opportunity to improve primary sport/activity performance or overall fitness, through designing and participating in a variety of cross training physical activities.
1 hr

PHYS-ED 175  PERSONAL FITNESS
This course is designed to expose students to facts about and experiences in dealing with motor, physical, physiological, psychological and nutritional aspects of the human being. Specific areas of study include hypokinetic disease, physical fitness, nutrition and wellness concepts. Fall/Winter/Summer
2 hrs

PHYS-ED 175 L  LIFETIME FITNESS LAB
This course is designed to provide supervised activity experiences including self assessment and self directed physical exercise programs that are coordinated with the lecture portion of the course.
1 hr

PHYS-ED 180  BEGINNING SWIMMING
This course is designed to equip each student with basic water safety skills and knowledge in order to make them reasonably safe while in, on or about the water.
1 hr

PHYS-ED 181  FITNESS SWIMMING
This course is designed to challenge and encourage each student to develop an individualized fitness program based on personal goals. Lap swimming as well as water exercise will be incorporated in the class.
1 hr

PHYS-ED 189  SPECIAL TOPICS: ACTIVITY
A course designed to deal with a special activity class which is not available in the regular course offerings. Activity class, instructors and prerequisites to be listed in the semester bulletin.
1 hr
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS-ED 189</td>
<td>Special Topics/Activity</td>
<td>1 hr</td>
</tr>
<tr>
<td>PHYS-ED 189 BE</td>
<td>Special Topics/Activity</td>
<td>1 hr</td>
</tr>
<tr>
<td>PHYS-ED 189 KT</td>
<td>Special Topics/Activity</td>
<td>1 hr</td>
</tr>
<tr>
<td>PHYS-ED 189 RT</td>
<td>Special Topics/Activity</td>
<td>1 hr</td>
</tr>
<tr>
<td>PHYS-ED 189 SS</td>
<td>Special Topics/Activity</td>
<td>1 hr</td>
</tr>
<tr>
<td>PHYS-ED 189 WJ</td>
<td>Special Topics/Activity</td>
<td>1 hr</td>
</tr>
<tr>
<td>PHYS-ED 189 WM</td>
<td>Special Topics/Activity</td>
<td>1 hr</td>
</tr>
<tr>
<td>PHYS-ED 189 XX</td>
<td>Special Topics/Activity</td>
<td>1 hr</td>
</tr>
<tr>
<td>PHYS-ED 189 XY</td>
<td>Special Topics/Activity</td>
<td>1 hr</td>
</tr>
<tr>
<td>PHYS-ED 189 YO</td>
<td>Special Topics/Activity</td>
<td>1 hr</td>
</tr>
<tr>
<td>PHYS-ED 206</td>
<td>First Aid and Safety</td>
<td>Methods of administering first aid in case of accident or sudden illness; bandaging; resuscitation; and caring for wounds and injuries. Safety in schools will be stressed. (Elective). 1 hr</td>
</tr>
<tr>
<td>PHYS-ED 207</td>
<td>Outdoor and Leisure Pursuits</td>
<td>Designed to acquaint students with opportunities for leisure and recreational activity in the outdoors. Emphasizes safety measures and planning skills as well as development of particular movement skills and knowledge about associated wildlife. 2 hrs</td>
</tr>
<tr>
<td>PHYS-ED 212</td>
<td>Self Defense</td>
<td>Study in the theory of self defense. Content focuses on: technique for eliminating dangers from daily living, methods for recognizing and avoiding dangers, and skills and strategies for employing physical defense when necessary. 1 hr</td>
</tr>
<tr>
<td>PHYS-ED 312</td>
<td>Physical Education for the Elementary Schools</td>
<td>This course identifies the physical education needs of the elementary school child in relation to his total development with emphasis on methods and materials. Must be taken concurrently with PHYS-ED 312L. Prerequisite: Elementary Education Major Required. 2 hrs</td>
</tr>
<tr>
<td>PHYS-ED 312 L</td>
<td>Laboratory Experiences in Physical Education for the Elementary School</td>
<td>This course consists of laboratory teaching experiences, with skill theme combinations of games, gymnastics, dance &amp; fitness. Must be taken concurrently with PHYS-ED 312. 1 hr</td>
</tr>
<tr>
<td>PHYS-ED 323</td>
<td>Nutrition for Fitness and Sport</td>
<td>This course examines the role nutrition, complemented by exercise, may play in the enhancement of fitness and sport performance. Considerable attention will be devoted to the use of nutritional ergogenic aids with reference to athletic performance. Prerequisite: LS-PHYSICS 117, LS-ANATO 118, LS-ANATO 118L or permission of instructor. Offered: Fall and Winter. 3 hrs</td>
</tr>
<tr>
<td>PHYS-ED 361 WI</td>
<td>Sociology of Sport and Exercise</td>
<td>The critical examination of the function of sport in the American culture, in an interdisciplinary fashion, with a focus on the contemporary scene. The work of the course will include readings on sociological issues of sport and exercise, the writing of mini-research papers, and a long paper with a presentation. Prerequisite: Introduction course in sociology Offered: MW 1pm-2:15 (Winter)</td>
</tr>
</tbody>
</table>
3 hrs

PHYS-ED 389  **Special Topics In Health And Physical Education**
This course is designed to offer a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.

1-3 hrs

PHYS-ED 401  **Health Teaching In The Schools**
Study of school health programs with emphasis on methods and materials for health and safety instruction in grades K-8. Must be taken concurrently with PE 401L. Prerequisites: Elementary or Physical Education Teaching major.

2 hrs

PHYS-ED 401 L  **Health Teaching In The Schools Lab**
Students will attain beginning level competence in skills related to teaching health in schools, including planning, preparation and presentation skills. Computer skills will be used to search internet, e-mail, and develop a computer generated presentation.

1 hr

PHYS-ED 499  **Internship**
Extensive experience in a practical situation under supervision of university faculty and on-site personnel. Breadth and intensity of involvement will depend on student ability. Prerequisites: Upper Division Major; consent of instructor.

3-6 hrs

**Special Education (EDSP)**

EDUC-SP 407  **Educating Exceptional Children And Youth**
An introductory course in special education concerning issues, theories, and practices for educating the exceptional student in both general and special classrooms or settings; identification and educational intervention procedures for children and adolescents with exceptionalities, including behavior disordered; learning disabled, mentally retarded, speech impaired; visually impaired, physically impaired, hearing impaired, multihandicapped and gifted.

3 hrs

**Education (EDUC)**

EDUC 149  **Economics In The K-8 Classroom**
This course is designed to help students develop an understanding of economic concepts and principles and to raise their level of comfort for infusing these concepts throughout the K-8 curriculum. Special attention will be given to both national and state economic standards.

3 hrs

EDUC 160  **Career And Life Planning**
Skill development in career planning through processes of self-assessment and self-development and analyzing the structure of the world of work and occupational information, values, clarification and decision making, vocational exploration and preparation for employment.

2 hrs

EDUC 180  **Introduction To Education**
The course will present an overview of education today for those who have a general interest in education or are considering becoming educators. The curriculum provides students with an introduction to current issues in education while incorporating skills needed for academic success. Students will also have the opportunity to gain experience in a K-12 classroom setting (2 credit hours). Prerequisite: None Offered: Fall, Winter, Summer

2 hrs

EDUC 189  **Special Topics**
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.

1-6 hrs

EDUC 189 CD  **Special Topics**

1-6 hrs

EDUC 189 EE  **Special Topics**

1-6 hrs

EDUC 189 FE  **Special Topics**

1-6 hrs

EDUC 189 MM  **Special Topics**

1-6 hrs

EDUC 189 UE  **Special Topics**

1-6 hrs
EDUC 189 UF  Special Topics
1-6 hrs

EDUC 189 US  Special Topics
1-6 hrs

EDUC 289  Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.
1-6 hrs

EDUC 289 FE  Special Topics
1-6 hrs

EDUC 289 FL  Special Topics
1-6 hrs

EDUC 289 IA  Special Topics
1-6 hrs

EDUC 289 IU  Special Topics
1-6 hrs

EDUC 289 MM  Special Topics
1-6 hrs

EDUC 289 MT  Special Topics
1-6 hrs

EDUC 289 PS  Special Topics
1-6 hrs

EDUC 289 TE  Special Topics
1-6 hrs

EDUC 289 UE  Special Topics
1-6 hrs

EDUC 289 US  Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.
1-6 hrs

EDUC 389  Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.
1-6 hrs

EDUC 389 MM  Special Topics
An undergraduate course designed to deal with a topic which is not available in the regular course offerings. Topics, instructors and prerequisites to be listed in the semester bulletin.
1-6 hrs

EDUC 402 R  Algebra For Teachers
This course is designed for secondary school mathematics teachers and teacher candidates. The content of secondary school algebra is analyzed and rationalized from a deep conceptual base with particular attention to those areas within algebra experiencing the greatest amount of change.
3 hrs

EDUC 428  Cultural Diversity And American Education
An examination of educational needs and strategies in a culturally diverse society based on a study of several major ethnic and nationality groups in America from historical, anthropological and sociological perspectives. This course may be team-taught.
EDUC 434  **CLASSROOM DIAGNOSIS AND CORRECTION OF READING PROBLEMS**
Procedures for the diagnosis and correction of reading problems which are appropriate for classroom teachers. Prerequisite: TCH-ED 415.

EDUC 439  **CONTENT READING AND LANGUAGE DEVELOPMENT (4-12)**
Training in how to reduce the magnitude of difficulty experienced by students in making the transition from learning to read to reading to learn. Specific topics include: inquiry training; vocabulary acquisition; study skills; reading for upper level students; critical/constructive reading, writing across the curriculum, school-wide programming, and working with special needs students (e.g., L.D., ESL, culturally, different).

EDUC 440  **LITERATURE FOR ADOLESCENTS**
Focus upon literature for adolescents and ethnic literature, specifically, and upon the special reading interests of the adolescent in relation to the methods and materials of reading in grades 7-12, generally. Attention to literature selection standards, censorship, individualized instruction, and reader response.

EDUC 489 A  **SPECIAL TOPICS**
1-6 hrs

EDUC 489 BP  **SPECIAL TOPICS**
1-6 hrs

EDUC 489 LO  **SPECIAL TOPICS**
1-6 hrs

EDUC 489 Q  **SPECIAL TOPICS**
1-6 hrs

EDUC 489 QT  **SPECIAL TOPICS**
1-6 hrs

EDUC 489 TA  **SPECIAL TOPICS**
1-6 hrs

EDUC 497  **INDIVIDUAL STUDY**
Guided study of a selected topic in education. Prerequisite: Permission of instructor.

1-6 hrs

**TEACHER EDUCATION (TE)**

TCH-ED 130  **NUMBER SYSTEMS AND RELATED TOPICS**
This course is designed for elementary perservice teachers to meet certification requirements for a course in number theory. The course provides a constructive development of the real number system, introduces concepts from elementary number theory and applies this knowledge of quantitative systems to solve various types of problems. Prerequisites: High School Algebra and Geometry Offered: Fall Semesters

3 hrs

TCH-ED 140  **GEOMETRY FOR ELEMENTARY TEACHERS**
This course is designed for elementary perservice teachers to meet certification requirements for a course in geometry. It provides a constructive development of axiomatic geometry and introduces concepts from transformation geometry. Elements of spatial sense and measurement are included and an emphasis is placed on applying this knowledge to solve various types of problems. Prerequisites: High School Algebra and Geometry Offered: Winter Semesters

3 hrs

TCH-ED 201  **CHILDREN’S LITERATURE**
Survey of books for children. Attention given to standard aids for selection, criteria for evaluating different types of literature and creating an environment for response to literature. A primary focus on multicultural literature for children. Fall

3 hrs

TCH-ED 350  **MULTI-MEDIA PRODUCTION FOR THE CLASSROOM**
An introductory course in the media production techniques involving knowledge and practical use of computers, scanners, digital video, digital audio and graphics to create professional multimedia for use in the classroom. The class is designed for prospective and current classroom teachers.

1 hr

TCH-ED 385  **TEACHING AND LEARNING WITH TECHNOLOGY**
This is an introductory course that covers the fundamentals of standard educational computer applications in addition to providing basic concepts regarding classroom hardware and software integration. This course familiarizes students with the National Educational Technology Standards for Teachers and Students. Because of the computer's increasing importance in all phases of education, hands-on experiences are required throughout the course.

1 hr
3 hrs
TCH-ED 400  Child Development
Intellectual and social development from birth through middle childhood and their implications for the educative process.

3 hrs
TCH-ED 402  Creative Activities
Basic principles of creativity and their application in the multicultural teaching of art, creative dramatics, creative movement and musical rhythmic interpretation will be explored. An emphasis will be placed on the interrelationship of these disciplines and integration into the curriculum.

3 hrs
TCH-ED 403  Educational Psychology
This course will provide an introductory examination of psychological research and theory which have implications for, and applications to learning and instruction in interactive social contexts, such as classrooms.

3 hrs
TCH-ED 404  Education Of The Exceptional Child And Youth
Students will be introduced to identification and educational intervention procedures for educating exceptional children and adolescents in mainstream classroom situations. Fall and Winter.

3 hrs
TCH-ED 405  Practicum I
Taken in conjunction with elementary and middle school methods courses. Students are expected to spend 0 hours at classroom sites during the semester.

0 hrs
TCH-ED 406  Field Experience - Early Childhood Elementary And Middle
Taken in conjunction with elementary and middle school methods courses. Students are expected to spend 60 hours at classroom sites during the semester.

1 hr
TCH-ED 407  Field Experience - Elementary And Middle 3
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.

1 hr
TCH-ED 408  Introductory Foundations
The course will concentrate on the development of a philosophical, historical and social model to assist in understanding the complexities, strengths and problems of present day education. Fall and Winter.

3 hrs
TCH-ED 409  Teacher in the Classroom
This class provides the foundational skills and practices that cut across all curricular areas. The pre-service teacher will experience key modes of teaching, how to plan and manage instruction. In addition, students will receive an introduction to working with state assessment data and an introduction to the state safe school laws.

3 hrs
TCH-ED 412  Language Arts In The Elementary And Middle School
Provides instruction in planning, implementing and assessing language arts activities. Critical analysis in classroom settings is emphasized. Other issues discussed include: literature-based instruction, multicultural perspectives, special needs students and professional behaviors. Fall.

3 hrs
TCH-ED 413  Mathematics in the Elementary School
Mathematics-specific pedagogy. Methods, techniques, tools and materials for the effective teaching of mathematics. Emphasis on problem solving and reasoning skills in applying mathematics and on teaching in the context of diverse student backgrounds. Four contact hours per week include a two-hour laboratory. Fall.

3 hrs
TCH-ED 414  General Methods Elementary And Middle - 3
To summarize and synthesize the pre-service educational experience. To become knowledgeable about the realities of a school life in a "real" classroom. Winter.

2 hrs
TCH-ED 415  Reading 1: Intro to Literacy and Reading Instruction
This course introduces concepts about literacy processes; i.e., social, cultural, cognitive and linguistic foundations of reading and writing processes. The major focus of the course is on learning components of a comprehensive reading curriculum, and a range of instructional approaches and methods appropriate for learners at different stages of literacy development.

4 hrs
TCH-ED 416  Reading 2
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.

4 hrs
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCH-ED 417</td>
<td>SCIENCE METHODS IN THE ELEMENTARY SCHOOL</td>
<td>The course prepares pre-service teachers to teach science from a constructivist, inquiry-oriented perspective.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TCH-ED 418</td>
<td>SOCIAL STUDIES METHODS IN THE ELEMENTARY AND MIDDLE SCHOOLS</td>
<td>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.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TCH-ED 419</td>
<td>STUDENT TEACHING IN ELEMENTARY SCHOOL</td>
<td>Observation and student teaching under supervision in an elementary school. Elementary majors must enroll in 12.0 credit hours. Music education majors enroll in 3.0 or 7.0 hours; art education and foreign language education majors enroll in 7.0 hours. Prerequisite: Formal approval by faculty. Offered: Winter</td>
<td>3-12 hrs</td>
</tr>
<tr>
<td>TCH-ED 420</td>
<td>ADOLESCENT DEVELOPMENT</td>
<td>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.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TCH-ED 422</td>
<td>FIELD EXPERIENCE - SECONDARY 2</td>
<td>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.</td>
<td>1 hr</td>
</tr>
<tr>
<td>TCH-ED 423</td>
<td>PRACTICUM II MIDDLE AND SECONDARY</td>
<td>A continuation of Practicum II. Further development of observation, interview and analytic skills. Teaching experiences such as teacher aide and/or tutor will be included. Students will be expected to spend 60 hours at classroom sites during the semester. Prerequisites: TCH ED 405 and TCH ED 422. Offered: Fall</td>
<td>0 hrs</td>
</tr>
<tr>
<td>TCH-ED 424</td>
<td>GENERAL METHODS - SECONDARY 1</td>
<td>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.</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TCH-ED 425</td>
<td>GENERAL METHODS - SECONDARY 2</td>
<td>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.</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TCH-ED 427</td>
<td>READING IN THE SECONDARY SCHOOL</td>
<td>An examination of the reading process and study of methods and materials used by the secondary school classroom teacher in assessing student reading ability, determining the readability of content area materials and teaching students of all reading levels how to comprehend their textbooks and other printed instructional materials in various content area subjects. Winter.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TCH-ED 432</td>
<td>SPECIAL METHODS OF TEACHING ENGLISH TO MIDDLE SCHOOL AND HIGH SCHOOL STUDENTS</td>
<td>This course stresses the understanding, skills and information pertinent to teaching English/language arts in middle schools and junior and senior high schools. Fall.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TCH-ED 433</td>
<td>SPECIAL METHODS OF TEACHING MIDDLE AND SECONDARY MATHEMATICS</td>
<td>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.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TCH-ED 436</td>
<td>SPECIAL METHODS OF TEACHING SOCIAL STUDIES TO MIDDLE/SECONDARY SCHOOL STUDENTS</td>
<td>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.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TCH-ED 437</td>
<td>STUDENT TEACHING IN SECONDARY SCHOOL</td>
<td>Observation and student teaching under supervision in a secondary school. Secondary majors not specifically listed here must enroll in 12.0 credit hours. Music education majors enroll in 3.0 or 7.0 hours; art education and foreign language education majors must enroll in 7.0 hours. Prerequisite: Formal approval by faculty. Offered: Winter</td>
<td>3-12 hrs</td>
</tr>
<tr>
<td>TCH-ED 440</td>
<td>INTRODUCTION TO EARLY CHILDHOOD EDUCATION</td>
<td>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.</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>
TCH-ED 441  LITERACY DEVELOPMENT I
An introduction to how language is acquired and how to facilitate oral language expression in early childhood classrooms.
3 hrs

TCH-ED 442  OBSERVATION, ASSESSMENT & SCREENING IN EARLY CHILDHOOD CLASSROOMS
This course is designed to identify developmentally appropriate ways to measure and evaluate child growth and development.
3 hrs

TCH-ED 444  MATHEMATICS IN EARLY CHILDHOOD AND ELEMENTARY SCHOOLS
The course prepares teachers who can create a learning environment in which mathematical concepts are drawn from and modeled within the child's active investigation of his or her own surroundings and views of the world. The emphasis is upon mathematics as a sense-making tool through which observation, action, classification, ordering, seeking patterns and common features, and testing of ideas come together to organize experiences and solve problems in the immediate environment. Stress is placed on methods and materials to make mathematics learning active and hands-on. A variety of materials, physical models, and tools are studied in terms of the way they can be used to help children explore, develop and test ideas, construct meaning, and communicate ideas.
3 hrs

TCH-ED 445  SCIENCE IN EARLY CHILDHOOD AND ELEMENTARY SCHOOLS
Focus on ways of involving young children in science activities and experiences designed to promote curiosity, investigation and self-awareness as they explore their world.
3 hrs

TCH-ED 447  SOCIAL STUDIES IN EARLY CHILDHOOD & ELEMENTARY SCHOOLS
This course is designed to help students understand basic social studies concepts and pedagogy for young learners.
3 hrs

TCH-ED 450  INTEGRATING THE CURRICULUM IN EARLY CHILDHOOD EDUCATION
A culminating curriculum course for early childhood students. The overall goal is to help students become more aware, skilled and informed about developmentally and educationally appropriate practice and curriculum for children during early childhood. Its focus is on constructing an integrated curriculum. A field-based experience is included.
3-4 hrs

TCH-ED 451  CHILD GUIDANCE WITHIN THE CLASSROOM
Designed to help students examine and evaluate guidance techniques and teaching strategies used in classrooms for young children. Preventive measures in classroom management will be stressed.
3 hrs

TCH-ED 452  FAMILY AND PROGRAM RELATIONSHIPS IN EARLY CHILDHOOD EDUCATION
Provides insight into the challenge of parenting, knowledge about the development and implementation of parent education and support programs, and the significance of school-family relationships. In addition, this course seeks to facilitate students' understanding of and sensitivity to parents' perspectives regarding the care and education of their young children. (Concurrent enrollment in TCH-ED 452, Learning from Parents, required).
4 hrs

TCH-ED 453  LEARNING FROM PARENTS
Designed to provide students with direct interactions with parents whose children are participating in early childhood programs, birth to age 8. Emphasis is placed upon students' understanding of, and sensitivity to, parents' perspectives regarding the care and education of their young children and recognition of parents as significant informants about their children. (Concurrent enrollment in TCH-ED 452, Family and Program Relationships, required).
2 hrs

TCH-ED 454  HUMAN RELATIONS IN THE EARLY CHILDHOOD CLASSROOM
Students will analyze the connections between an effective helping relationship and effective teaching in the early childhood classroom. Effective interpersonal communication skills will be identified and practiced. The development of self-concept will be discussed.
3 hrs

TCH-ED 455  STUDENT TEACHING IN PRESCHOOL
Observation and student teaching under supervision in a preschool setting.
6-10 hrs

TCH-ED 456  STUDENT TEACHING IN ELEMENTARY, K THROUGH 3
Observation and student teaching under supervision in an elementary school, grades K through 3.
6-12 hrs

TCH-ED 457  INFANT AND TODDLER CARE AND EDUCATION
In this course, students will investigate infant and toddler care and education theories and practices. Students will learn about appropriate curriculum and teaching methods, visit infant and toddler programs, learn about state regulations and national standards for quality, and complete an environment rating scale.
3 hrs

TCH-ED 458  PRACTICUM FOR LEARNING ABOUT INFANTS AND TODDLERS
The purpose of this course is to learn about child care and education practices in various centers. We will discuss how practices are influenced or constrained by human biology and developmental stages, as they are by ecological and environment pressures such as mothers' work roles. The central themes of the course can be summarized by the phrases "purposeful care practices" and the "optimal practices for infants and toddlers."
1 hr
TCH-ED 459  EARLY CHILDHOOD PROGRAM MANAGEMENT AND ADVOCACY
Students will begin to explore basic early childhood program components. Different types of advocacy will be presented, discussed, and implemented. Prerequisite: TCH-ED 440
2 hrs

TCH-ED 460  MIDDLE SCHOOL CURRICULUM
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
2 hrs

TCH-ED 461  STUDENT TEACHING IN MIDDLE SCHOOL
Observation and student teaching under supervision in a middle school setting.
6-12 hrs

TCH-ED 462  MIDDLE SCHOOL PRINCIPLES AND ORGANIZATION
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.
2 hrs

TCH-ED 470  PHILOSOPHY AND HISTORY OF SCIENCE AND TECHNOLOGY
This course uses an historical survey to introduce the main philosophical interpretations of the nature and structure of both science and technology. Core concepts such as prediction, explanation, progress, truth, and utility will be examined in light of various philosophical perspectives. Following this, case study methodology will be used to examine interactions among science, technology, and society. Although the major focus will be upon modern Western culture, some attention will be paid to earlier and non-Western cultures. Case studies to be examined include: under the topic of Risk: Perception and Estimation, nuclear power and pesticides; the impact of high technology upon medicine; and the estimated cost/benefit of computer-mediated communications, for example, the Internet. Offered: Fall Semester.
3 hrs

TCH-ED 471  PRACTICUM I EARLY CHILDHOOD
Early Childhood students will participate in observation, assessment, and screening activities as they explore the complex nature of primary school settings. This course is taken in conjunction with TCH-ED 442. Students will be expected to spend 60 hours at classroom sites during the semester.
1 hr

TCH-ED 480  PRACTICUM II EARLY CHILDHOOD
Early Childhood students will participate in classroom management and guidance practices as they explore the complex nature of pre-kindergarten settings. This course is taken in conjunction with TCH-ED 451. Students will be expected to spend 60 hours at classroom sites during the semester. Prerequisite: TCH-ED 480 Restrictions: Students must be admitted to teacher education program
1 hr

School of Graduate Studies

Libraries

School of Medicine

SCHOOL OF MEDICINE COURSES

BASIC MEDICAL SCIENCE (BMS) MEDICINE ANESTHESIA

School of Nursing

SCHOOL OF NURSING COURSES

NURSE 101  INTRODUCTION TO NURSING
This introductory two-hour course is designed to facilitate role socialization into professional nursing. Beginning with a brief historical overview of professional nursing, nursing is defined and the philosophical and practice standards of the profession are discussed. The student explores nursing's image and power bases in relationship to professional accountabilities and roles. The value and tenets of 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
2 hrs

NURSE 120  ANATOMY & PHYSIOLOGY I
This introductory level course examines the structure and function of the human body from the molecular to the organismal 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: Pre-nursing students or consent of instructor. Offered: Fall
4 hrs

NURSE 125  MEDICAL TERMINOLOGY
This course is designed to introduce the student to medical terminology. The major foci of this course are to acquaint the student in how medical terms are formed; how medical terms are applied to organs, body systems and pathological conditions; how common medical abbreviations are used; and how medical terminology is integrated into the medical record. Prerequisite: None Restrictions: None Offered: Fall/Winter
This course provides a basic introduction to the theory and research basis for human growth and development across the lifespan. Emphasis is placed upon the biological and the psychosocial aspects of growth and development. Content is organized in a modified chronological order dividing information into major stages of growth and development across the lifespan. Prerequisite: None Restrictions: None Offered: Spring
This course is designed to introduce students to the health care issues found in other countries with a focus on low- and middle-income countries. Students will study philosophical, system and cultural aspects of health care and will be expected to compare health care in the United States with other nations. Core concepts include globalization, health care reform, organization and management of health systems, community, public and primary health care, humanitarian assistance and refugee health, international nutrition, vaccine development and policy, disease prevention and control, and social and behavioral interventions. Each year, a faculty member will choose 1-2 countries outside of the United States for in-depth study. Students wishing to earn 3 credits will travel to this country and learn about the health issues through observations and participation. Prerequisites: At least second year student in the UMKC School of Nursing or permission of instructor. Offered: Winter

2-3 hrs

NURSE 356 APPLIED SPANISH FOR HEALTHCARE PROVIDERS
This course will focus on conversational Spanish, medical terminology in Spanish and written/read Spanish. This course will provide the student with basic knowledge that will allow basic communication with patients who speak/read/write Spanish. This is a fast paced course and will require practice of the language outside of the classroom in order to master the material presented. Prerequisite: Permission of Instructor. Offered: All Semesters

3 hrs

NURSE 359 INTRODUCTION TO INTERNATIONAL HEALTH CARE
This course is designed to introduce the student to psychiatric mental health nursing through the study of sound psychiatric nursing theory, therapeutic and clinical applications across the treatment continuum and the lifespan. The course will focus on the dynamics of the nursing process framework, the establishment and maintenance of a therapeutic nurse-client relationship and the dignity of each person. Emphasis will be placed on assessment, therapeutic communication, neurobiological theory, pharmacology and the individual as a whole person. Nursing interventions will focus on all aspects of patient care, communication, client/family teaching, and community resources and their practical application in a variety of clinical settings. Content will be arranged around the major categories identified in the DSM-IV-TR and current social and emotional concerns including mental health settings, e.g., grief and loss, anger and aggression, abuse and violence. This four credit hour course consists of two hours of didactic/discussion and two hours of clinical/lab.

4 hrs

NURSE 360 MANAGEMENT OF MENTAL HEALTH
This course is designed to introduce the student to psychiatric mental health nursing through the study of sound psychiatric nursing theory, therapeutic and clinical applications across the treatment continuum and the lifespan. The course will focus on the dynamics of the nursing process framework, the establishment and maintenance of a therapeutic nurse-client relationship and the dignity of each person. Emphasis will be placed on assessment, therapeutic communication, neurobiological theory, pharmacology and the individual as a whole person. Nursing interventions will focus on all aspects of patient care, communication, client/family teaching, and community resources and their practical application in a variety of clinical settings. Content will be arranged around the major categories identified in the DSM-IV-TR and current social and emotional concerns including mental health settings, e.g., grief and loss, anger and aggression, abuse and violence. This four credit hour course consists of two hours of didactic/discussion and two hours of clinical/lab.

5 hrs

NURSE 364 MANAGEMENT OF MATERNAL & FAMILY HEALTH
This course focuses on the application of the nursing process in the adaptation of the childbearing family. Emphasis is placed on adaption during pregnancy, labor, birth and postpartum period. Key concepts to be addressed include maternal, fetal, neonatal and family adaption throughout the maternity cycle, common alterations during the cycle and culturally sensitive, family-centered nursing care. Maternal, fetal and neonatal physiology, pathophysiology and pharmacology will be addressed. Two credit hours didactic and two credit hours for clinical practice (120 clinical hours) are required. Prerequisites: Successful Completion of N262, including all prerequisites and corequisites. Restrictions: Minimum grade of C in all major courses. Offered: Fall/Winter

4 hrs

NURSE 395 PATHOPHYSIOLOGY
This course will focus on alterations in biologic processes that affect the body's internal homeostasis. A conceptual approach will be used to emphasize general principles of pathophysiology. The etiology, pathogenesis, clinical manifestations, and sequelae of various alterations of human structure and function will be examined. Knowledge from the basic and clinical sciences will be integrated. Prerequisites: Anatomy & Physiology I & II. Chemistry and Microbiology (concurrent)

3 hrs
NURSE 398 **CLINICAL APPLICATIONS OF PATHOPHYSIOLOGY**
This nursing elective is designed to guide students through self-directed and in-depth analysis of selected diagnoses that are common to clinical practice and represent major concepts of pathophysiology, evaluation, and management that can be applied to many other illnesses. With faculty guidance, students will work in small groups to comprehensively review and analyze a selected clinical case for presentation and discussion with peers. One case from each of the following major body systems will be presented by student groups: cardiovascular, pulmonary, cancer, endocrine, hematologic, immunologic, digestive, neurological, musculoskeletal, and genitourinary. Students are expected to attend and actively participate in all of the case presentations through completion of assigned readings, preparatory review of current literature, active listening, and comprehensive peer evaluation. Students will present and facilitate discussion within the large group of selected current literature following each case presentation. Prerequisite: 200 level Nursing courses; NURSE 395 Pathophysiology Offered: Varies

2 hrs

NURSE 401 **HEALTH ASSESSMENT FOR CLINICAL PRACTICE**
This course is designed to provide a systematic approach to the physiological, psychological, socio-cultural and developmental assessment of individuals emphasizing findings considered to be within normal limits. The health history is emphasized as a tool for assessing mental and physical status. This course is designed for students with previous health care education, including knowledge of biochemical functions of systems and concepts of normal. This course consists of guided self-study and on-site clinical practice. Prerequisites: Admitted into RN-BSN program or permission of instructor. Offered: Fall/Spring

3 hrs

NURSE 430 A **EXPERIENCE OF HEALTH IN AGING: PHYSIOLOGICAL & COGNITIVE ASPECTS**
This one-credit hour course is designed for students interested in understanding the role of health in the aging population. The 430A course will focus primarily on physiologic and cognitive functioning of the older adult. Theoretical, empirical and applied knowledge of the aging process is presented. This knowledge is utilized in assessing and interpreting the physiological and psychological influences on health. This knowledge may also be used in developing strategies for the promotion, restoration, and maintenance of health in the aging population. Offered: Winter

1 hr

NURSE 430 B **THE EXPERIENCE OF HEALTH IN AGING: RELATIONSHIPS & THE ENVIRONMENT**
This one-credit hour course is designed for students interested in understanding the role of health, relationships in the aging population. The N430B course will focus primarily on loss/grief and relationships environment and as these relate to the older adult. Theoretical, empirical and applied knowledge of the aging process is presented. This knowledge is utilized in assessing and interpreting the influences of relationships, intimacy, loss, grief, and dying on health. This knowledge may also be used in developing strategies for the promotion, restoration, and maintenance of health in the aging population. Offered: Winter

1 hr

NURSE 430 C **THE EXPERIENCE OF HEALTH IN AGING: COMMUNITY, SYSTEMS & SERVICE DELIVERY**
This one-credit hour course is designed for students interested in understanding the role of health, community, systems and service delivery in the aging population. Selected special issues (such as fluid and continence, medication use, pain and comfort, bone/joint problems) will also be discussed. The N430C course will focus primarily on community, health systems and service delivery as these relate to the older adult. Theoretical, empirical and applied knowledge of aging on the health system and delivery process is presented. This knowledge is utilized in assessing and interpreting the influences of the community and health care delivery systems on health. This knowledge may also be used in developing strategies for the promotion, restoration, and maintenance of health in the aging population.

1 hr

NURSE 432 A **HOLISTIC HEALTH CARE: MEDICINAL PLANTS & HERBS**
This course provides a hands-on and in-depth exploration to the practice of Holistic Health Care which promotes and preserves the health of client by integrating traditional and non-traditional healing modalities. Relevant to all health care providers and health care consumers, the content will cover medicinal plants and herbs and related topics. Prerequisite: None Offered: Fall

1 hr

NURSE 432 B **HOLISTIC HEALTH CARE: ENERGY MEDICINE**
This course provides a hands-on-in-depth exploration to the practice of Holistic Health Care which promotes and preserves the health of client by integrating traditional and non-traditional healing modalities. Relevant to all health care providers and health care consumers, the content will include Energy Medicine and related topics.

1 hr

NURSE 432 C **HOLISTIC HEALTH CARE: RELAXATION TECHNIQUES**
This course provides a hands-on-in-depth exploration to the practice of Holistic Health Care which promotes and preserves the health of client by integrating traditional and non-traditional healing modalities. Relevant to all health care providers and health care consumers, the content will include Relaxation Techniques and related topics. Prerequisite: None Offered: Fall

1 hr

NURSE 432 D **HOLISTIC HEALTH CARE: CHINESE MEDICINE AND HYPNOSIS**
This course provides a hands on introduction to the practice of Holistic Health Care which promotes and preserves the health of clients by integrating traditional and non traditional healing modalities. Relevant to all health care providers and health care consumers, the content will include Chinese Medicine, Hypnosis and other related topics.

1 hr

NURSE 433 **PARISH NURSE HEALTH MINISTRY BASIC PREPARATION COURSE**
This course introduces students to the practice of Parish Nurse Health Ministry which promotes and preserves the health of clients in community faith-based settings. Content will include the role of the congregation in health, healing, and wholeness; the theology of health, healing and wholeness, history and philosophy of Parish Nursing; ethics of Parish Nursing; self care for Parish Nurses; assessment of individuals, families, and congregations; accountability and documentation, roles of the Parish Nurse-Integrator of faith and health, Personal Health Counselor, Health Educator, Referral Agent, Coordinator of Volunteers, Developer of Support Groups, and Health Advocate initiating a Parish Nurse Program; functioning with a ministerial team; health promotion and maintenance programs; and loss. 32 classroom hours; 13 independent library hrs. Prerequisite: RN license Offered: Winter/Fall

3 hrs

NURSE 434 A **HISTORY OF NURSING**
This course is designed to examine the rich and unique development of nursing as a discipline and profession, from a historical perspective. Past and present nursing issues will be identified and discussed. The social, philosophical, and political forces which have impacted the course of nursing history will be examined. Offered: Fall/Winter

1 hr

NURSE 434 B **HISTORY OF NURSING**
This course is designed to examine the rich and unique development of nursing as a discipline and profession, from a historical perspective. Past and present nursing issues will be identified and discussed. The social, philosophical, and political forces which have impacted the course of nursing history will be examined. Offered: Fall/Winter

1 hr
NURSE 434 C  HISTORY OF NURSING: 1930's to 1950's
This course is designed to examine, in depth, the rich and unique development of nursing as a discipline, profession, art and science from a historical perspective. Past and present nursing issues will be identified and discussed. The social, philosophical, and political forces which have impacted the course of nursing history from the 1930's, Public Health Nursing, World War II, to 1950 will be examined. Offered: Spring
1 hr

NURSE 434 D  HISTORY OF NURSING: 1950 to FUTURE
This course is designed to examine, in depth, the rich and unique development of nursing as a discipline, profession, art, and science from a historical perspective. Past and present nursing issues will be identified and discussed. The social, philosophical and political forces which have impacted the course of nursing history from 1950 to the present and into the future will be examined. Offered: Spring
1 hr

NURSE 450  INTRODUCTION TO COMPUTERS IN THE HEALTH CARE SYSTEM
This three-credit course will provide the student an opportunity to understand the basic characteristics common to computer hardware, software, and human input, and become proficient in the use of selected software, the Internet, and bibliographic databases. Students will also examine how computer technology is being deployed in health care and will explore the role of nurses/other health care professionals in contributing to information systems. Students will have hands-on experience with microcomputers, evaluate selected software, use basic word processing, spreadsheet, presentation, and database software, and utilize the World Wide Web for accessing information and e-mail. Current and future computer application needs for health care systems will be discussed. Prerequisite: Entry level preparation in a health care discipline and permission of instructor.
3 hrs

NURSE 462  SPECIAL TOPICS IN HEALTH CARE
This course is designed to critically explore current issues and trends influencing nursing practice. Economical, political, social and cultural issues are analyzed as they relate to interdisciplinary healthcare topics. Special Topics is aimed at preparing nursing students for immediate and long term milestones in their professional career, which included NCLEX licensure study, current clinical and practice issues, and exposure to advance nursing roles in practice and research. Prerequisites: NURSE 462 and NURSE 467
2 hrs

NURSE 465  MANAGEMENT OF COMMUNITY & PUBLIC HEALTH
This course focuses on families groups and community as the nurse's client. Community resources are identified and used in planning primary and tertiary prevention to assist clients in gaining or regaining an optimal level of functioning. The philosophy and standards of community health nursing will be emphasized. This course consists of three hours of lecture/discussion and eight hours of clinical practice per week. Prerequisites: Successful completion of all 200 level Nursing courses. Restrictions: Minimum grade of C in all major courses. Offered: Fall/Winter
4 hrs

NURSE 467  MANAGEMENT OF CRITICAL & EMERGENT CARE
This course focuses on applying the nursing process to the care of critically ill clients. Key concepts are assumption, integration, and prioritization of information to take decisive client-focused action. Students will manage appropriately the interface between client and technology so that a safe, respectful, and caring environment is established and maintained. Nursing knowledge of cardiovascular/ hemodynamic monitoring and acute management of pulmonary, neurological, renal, gastrointestinal, shock and traumatic emergencies is included. This five hour course consists of three hours didactic discussion and two hours clinical/lab. Prerequisites: NURSE 363 and NURSE 362
5 hrs

NURSE 468  EFFECTIVENESS IN COMPLEX HEALTH SYSTEMS
This leadership course focuses on effectiveness in complex health systems, builds upon acquired personal and interpersonal knowledge, skills and effective health outcomes. Organizational culture and systems, leadership and management theories, internal and external politics, and the impact of future managerial and societal paradigm changes on health care and health care delivery systems are presented. Knowledge of budgeting and health care finance, use of the legislative system, quality management, customer service, and leadership and management styles are explored. This five hour course consists of four hours of didactic discussion and one hour of clinical/lab. Prerequisites: NURSE 467 and NURSE 465. Restrictions: Minimum grade of "C" in all courses
5 hrs

NURSE 472  CLINICAL INTERNSHIP
This is the final clinical application course designed to complement didactic content from the core-nursing component of the baccalaureate program. Within this course the student will integrate and apply knowledge acquired in didactic course work and from previous clinical experiences. Students will integrate an increasingly complex knowledge base with an emphasis on developing effectiveness: a) personally; b) interpersonally, and c) in the health management of clients within the complexity of the hospital system. In collaboration with preceptors from the clinical unit, the students will manage direct care for clients in the hospital setting. This course consists of a total of 300 clinical hours. Prerequisites: N465 and N467 Co-requisite: N468 Offered: Winter
5 hrs

NURSE 476  SCIENTIFIC INQUIRY
This course focuses upon the development of those skills necessary to apply research finding to the evidence-based practice of nursing. This application requires that students develop the skills to intelligently and critically read and utilize current research literature. The specific steps in the research process, including ethical issues, are presented and discussed with emphasis upon the identification of quality research through critical analysis of research reports. This course consists of three hours of lecture/discussion per week. Prerequisite: Pre-licensure students: Completion of 14 hours of clinical coursework, e.g. N262,N364,N366CO-Requisite: N345 or equivalent Offered: Winter
3 hrs

NURSE 481  BLOCK I: TOOLS FOR PERSONAL EFFECTIVENESS
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
5 hrs

NURSE 482  BLOCK II: TOOLS FOR INTERPERSONAL EFFECTIVENESS
This is the second in the four-course sequence. The student will discover that interpersonal effectiveness is a prerequisite to effective management of the care of humans and teams. Interpersonal effectiveness is contingent in an understanding of professional care and caring, ethics in health care, legalities of practice, communication theories and the dynamics of groups and teams. Interpersonal effectiveness is enhanced through the use of such skills as conflict resolution and negotiation, managing change, marketing, team membership, group management, political awareness, technology utilization and communication techniques. Content appropriate to these areas will be covered within this course. Prerequisites: NURSE 481
6 hrs
This is the final course in the four-course sequence. Students will build upon the knowledge and skills acquired in the prior three courses in order to examine the essentials of structure and designs, behavior and culture, synergy, workplace diversity, health care finance, and power and politics within complex health systems. Organizational theories, leadership, management and nursing's social responsibility in an emerging global health care environment will also be explored.

6 hrs

**NURSE 485 APPLICATION TO PRACTICE**
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 students 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. The students will integrate an increasingly complex knowledge base with an emphasis on developing effectiveness: a) personally; b) interpersonally; and c) in the health management of populations of clients within 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 therefore be complex, extending across two semesters. Prerequisites/Corequisites: N481, N482, N483 Offered: Fall

2 hrs

**NURSE 486 APPLICATION TO PRACTICE**
This course is the second of two clinical application courses designed to complement didactic content from the four-course block sequence (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 students will integrate an increasingly complex knowledge base with an emphasis on developing effectiveness: a) personally; b) interpersonally; and c) in the health management of populations of clients within 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 therefore be complex, extending across two semesters. Credit Hours 2 to 3 Prerequisites/Corequisites: N483, N484, N485 Offered: Winter

2-3 hrs

**NURSE 487 WRITING FOR NURSING SCIENCES**
This course is a companion course to the core nursing component of the baccalaureate program. Within this course the student will discover that good writing is essential in the nursing profession for effectively transmitting nursing practice and professional and academic dialogue. Regardless of whether the writing is on a patient’s chart, in a grant proposal, or a formal presentation, professional writing must be clear, precise, logical, and appropriate to the situation. The art and process of writing is complex and can only be learned by practicing writing. Content appropriate to the enhancement of professional writing skills will be covered within this class. Students will examine writing processes, learn to find and use resources for writing, write and present several types of papers for nursing. Prerequisites: Concurrent enrollment in NURSE 484 Offered: Winter

1 hr

**NURSE 490 SPECIAL TOPICS**
A course of study in a special area of interest in nursing under individual faculty direction. Prerequisite: Consent of instructor.

1-9 hrs

**NURSE 490 BA SPECIAL TOPICS**

1-9 hrs

**NURSE 490 BB SPECIAL TOPICS**

1-9 hrs

**NURSE 490 BC SPECIAL TOPICS**

1-9 hrs

**NURSE 490 SPECIAL TOPICS NURSING**

H

1-9 hrs

**NURSE 490 SPECIAL TOPICS NURSING**

H

1-9 hrs

**NURSE 490 SPECIAL TOPICS**

WV

1-9 hrs

**NURSE 602 HEALTHCARE SYSTEMS & LEADERSHIP**
This course focuses on the DNP as leader within the complex health care industry. An in depth study of the socio-political, economic, cultural and historical background of the American health care system and the system of health professions will form the foundation for exploration of leadership needs and the DNP leadership role. Prerequisites: Admission to the DNP program

3 hrs

School of Pharmacy

**SCHOOL OF PHARMACY COURSES PHARMACY (PHARM)**
### School of Computing & Engineering

#### SCHOOL OF COMPUTING & ENGINEERING COURSES CIVIL ENGINEERING (CE)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV-ENGR 111</td>
<td>ESSENTIAL ENGINEERING</td>
<td>Introduction to the practice and history of engineering including its impact on human history, product design/development and its relationship to the ecosystem, professionalism and ethics, the engineering approach to solving real-world problems, engineering communications and calculations, engineering teamwork and case studies. (Same as MEC-ENGR 111)</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 211</td>
<td>THE ENGINEERING ENTERPRISE</td>
<td>The engineering enterprise course covers four topics essential for engineering students with new venture creation interests: creating economic value, leadership, finance, and marketing. The primary objective of this course is to motivate the student to think as a blend of an engineer and a businessperson. (Same as MEC-ENGR 211.) Pre/corequisite: CIV-ENGR 111</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 219</td>
<td>COMPUTER PROGRAMMING FOR ENGINEERS</td>
<td>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) Pre/corequisite: MATH 210</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 275</td>
<td>ENGINEERING STATICS</td>
<td>Fundamentals of statics; static equilibrium and introduction to elements of mechanics of elastic materials. Prerequisite: PHYSICS 240; Co-requisite: MATH 250</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 276</td>
<td>STRENGTH OF MATERIALS</td>
<td>Stress and strain; torsion; bending and shear stresses in beams; combined stresses; deflection of beams; columns. Prerequisite: CIV-ENGR 275.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 301</td>
<td>FUNDAMENTAL TOPICS IN CIVIL ENGINEERING</td>
<td>Special engineering topics for undergraduate students. Prerequisite: Instructor's consent.</td>
<td>1-3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 311</td>
<td>THE TECHNICAL ENTREPRENEUR</td>
<td>The guiding principal for the course is that entrepreneurs are innovators and operate in an uncertain and risky environment. The course looks at the entrepreneurial mindset and the process of new product line launch. (Same as MEC-ENGR 311). Prerequisite: CIV-ENGR 211</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 319</td>
<td>ENGINEERING COMPUTATION AND STATISTICS</td>
<td>Statistical distribution functions and application to engineering problems. Limited treatment of curve-fitting and time-series analysis. Introduction to factorial design. (Same as MEC-ENGR 319). Prerequisites: CIV-ENGR 219 and MATH 220</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 320</td>
<td>INTRODUCTION TO FACTORIAL DESIGN</td>
<td>Concepts and techniques of ANOVA and factorial design to supplement standard undergraduate statistics courses. Prerequisite: Undergraduate Statistics Offered: Winter</td>
<td>1 hr</td>
</tr>
<tr>
<td>CIV-ENGR 321</td>
<td>STRUCTURAL ANALYSIS I</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: CIV-ENGR 276 and MATH 345</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 322</td>
<td>STRUCTURAL STEEL DESIGN</td>
<td>Basic principles of structural steel design. Design of beams, axially loaded members, columns, and bolted and welded connections. Prerequisite: CIV-ENGR 321.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 335</td>
<td>SOIL MECHANICS</td>
<td>Detailed study of physical and mechanical properties of soil governing its behavior as an engineering material. Prerequisite: CIV-ENGR 276.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 342</td>
<td>WATER AND WASTEWATER TREATMENT PROCESSES</td>
<td>Methods for determining and characterizing water quality, effects of pollution on streams and lakes, and an introduction to engineering systems for the distribution, collection and treatment of water and wastewater. Prerequisite: CIV-ENGR 351</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>
CIV-ENGR 351 | FLUID MECHANICS
Concepts of the statics and dynamics of fluids, with emphasis on principles of continuity, momentum and energy. Boundary layers, dimensional analysis and drag are covered briefly. Thorough treatment of pipe flow. (Same as ME 351). Prerequisites: MEC-ENGR 285 and MATH 345

3 hrs

CIV-ENGR 355 WI | WATER RESOURCE ENGINEERING
Design and analysis of water resource infrastructure. Applied surface water hydrology, analysis of pipeline systems, design of pumping plants and power generation, cavitation, water hammer, valves operations, open channel flow in rigid channels, gradually varied and rapidly varied flow. Prerequisites: CE 319, CE 351

5 hrs

CIV-ENGR 378 WI | CIVIL ENGINEERING MATERIALS
Composition, structure, properties, behavior and selection of civil engineering materials. Prerequisite: CE 276

3 hrs

CIV-ENGR 390 | ENGINEERING COOP/INTERNSHIP
Students may participate in structured Engineering Coop/Internship under the supervision of employer. They must carry out significant professional responsibilities and whatever additional assignments are determined by the employer. Prerequisite: MEC-ENGR 285 and CIV-ENGR 211

0 hrs

CIV-ENGR 400 | PROBLEMS
Directed investigation of civil engineering problems. Prerequisite: Instructor's consent

1-4 hrs

CIV-ENGR 401 | TOPICS IN CIVIL ENGINEERING
Study of current and new technical developments in civil engineering.

1-3 hrs

CIV-ENGR 401 D | TOPICS IN CIVIL ENGINEERING

3 hrs

CIV-ENGR 411 | CIVIL ENGINEERING SYSTEMS DESIGN I
Comprehensive and realistic design project using the systems approach. Design choices and their effect upon the environment. Design constraints include constructability, minimization of environmental impact, and cost-effectiveness. Managerial and professional aspects of design practice. Prerequisite: CIV-ENGR 355, and CIV-ENGR 323 or CIV-ENGR 422

2 hrs

CIV-ENGR 412 | CIVIL ENGINEERING SYSTEMS DESIGN II
Continuation of CIV-ENGR 411 Prerequisite: CIV-ENGR 411

3 hrs

CIV-ENGR 412 WI | CIVIL ENGINEERING SYSTEMS DESIGN II
Continuation of CIV-ENGR 411 Prerequisite: CIV-ENGR 411

3 hrs

CIV-ENGR 421 | MATRIX METHODS OF STRUCTURAL ANALYSIS
An introduction to the fundamentals of stiffness and flexibility methods for analysis of truss and frame structures. Application of the computer programs to three dimensional structures. Prerequisite: CIV-ENGR 321.

3 hrs

CIV-ENGR 422 | REINFORCED CONCRETE DESIGN
Basic principles of reinforced concrete design. Design of beams for flexure and shear; design of short and slender columns. Bond stress development. Footing design. Prerequisite: CIV-ENGR 321

3 hrs

CIV-ENGR 423 | ADVANCED STRUCTURAL STEEL DESIGN
Design of steel structures and bridges. Topics include composite beams, plate girder design, and moment resistant connections. Prerequisite: CIV-ENGR 323.

3 hrs

CIV-ENGR 425 | PRESTRESSED CONCRETE

3 hrs

CIV-ENGR 432 | FOUNDATION ENGINEERING
Design of basic foundation structures, footings, retaining walls, pile foundations, dams. Prerequisite: CIV-ENGR 335.

3 hrs
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV-ENGR 443</td>
<td><strong>HAZARDOUS WASTE MANAGEMENT</strong></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: MEC-ENGR 285 and CIV-ENGR 211</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 444</td>
<td><strong>UNIT PROCESS LABORATORY</strong></td>
<td>Chemical and physical relationships as applied to unit processes of water and wastewater. Prerequisite: CIV-ENGR 342.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 445</td>
<td><strong>ENVIRONMENTAL ENGINEERING MICROBIOLOGY</strong></td>
<td>Theory and application of fundamental principles of microbiology, ecology, and aquatic biology of the microorganisms of importance to sanitary engineers. Prerequisite: Senior Standing</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 446</td>
<td><strong>LIMNOLOGY</strong></td>
<td>Physical, biological and chemical issues important in surface fresh waters. Includes carbonate chemistry, algal assay and thermocline analysis. Prerequisites: MATH 345, CHEM 211 and senior standing.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 447</td>
<td><strong>CONTRACTS AND LAW FOR ENGINEERS</strong></td>
<td>Law of contracts, including types, construction, interpretation, performance, and termination. Construction and Engineering service contracts: proposals, general and financial conditions, specifications and drawings. Corporate and professional and person liability, insurance and bonds, property, evidence, arbitration and mediation. Offered: Fall</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 448</td>
<td><strong>ENVIRONMENTAL PUBLIC POLICY</strong></td>
<td>Engineering and economic aspects of environmental policy. Basic understanding of environmental statutes and case law. Prerequisite: MEC-ENGR 285 and CIV-ENGR 211</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 449</td>
<td><strong>ENVIRONMENTAL COMPLIANCE, AUDITING AND PERMITTING</strong></td>
<td>Statutes, regulations and permitting for air hazardous wastes and storage tanks. Asbestos, radon, EMF, and emerging areas of regulatory concern. Siting issues. Criminal and civil enforcement. Prerequisite: MEC-ENGR 285 and CIV-ENGR 211</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 452</td>
<td><strong>HYDRAULICS OF OPEN CHANNELS</strong></td>
<td>Gradually varied flow and theory of the hydraulic jump. Slowly varied flow involving storage; rating curves. Prerequisite: CIV-ENGR 351.</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 453</td>
<td><strong>HYDRAULICS AND VARIABILITY OF RIVERS</strong></td>
<td>Introduction to the concepts of alluvial channel behavior, evolution and change due to natural and man-induced modifications to streams and watersheds. Numerous case studies of river behavior are studied from the perspective of hydraulics, geomorphology and sediment transport. Prerequisite: CIV-ENGR 355</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 454</td>
<td><strong>RIVER STABILITY AND SCOUR</strong></td>
<td>Bridge hydraulics, stream stability, scour at bridge piers and abutments, hydraulic modeling of floods, countermeasures for protection of bridge infrastructure. Prerequisite: CIV-ENGR 355</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 455</td>
<td><strong>HIGHWAYS, HYDRAULICS &amp; SEDIMENT TRANSPORT</strong></td>
<td>Hydraulics of bridge enroachments, fundamentals of fluvial geomorphology, sediment transport, alluvial channel flow, sediment transport modeling, case studies of alluvial problems and bridges. Prerequisite: CIV-ENGR 355</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 465</td>
<td><strong>ENGINEERING ADMINISTRATION</strong></td>
<td>Cash flow analysis, financial analysis, managerial accounting and cost control, budgeting, organizational structure and behavior. Prerequisite: MEC-ENGR 285 and CIV-ENGR 211</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 467</td>
<td><strong>INTRODUCTION TO CONSTRUCTION MANAGEMENT</strong></td>
<td>Structure of the construction industry; construction drawings and specifications; estimating and bidding; construction contracts, bonds and insurance; planning and scheduling of construction operations; project management; computer techniques. Prerequisite: MEC-ENGR 285 and CIV-ENGR 211</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 468</td>
<td><strong>CONSTRUCTION PLANNING AND SCHEDULING</strong></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: MEC-ENGR 285 and CIV-ENGR 211</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>CIV-ENGR 469</td>
<td><strong>CONSTRUCTION METHODS AND EQUIPMENT</strong></td>
<td>Selection and use of construction equipment; planning construction operations. Equipment economics. Prerequisite: MEC-ENGR 285 and CIV-ENGR 211</td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>----------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIV-ENGR 472</td>
<td><strong>Advanced Mechanics Of Materials</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Shear center; unsymmetric bending; curved beams; beams on elastic foundations; thick-walled cylinders. Energy methods. Torsion of noncircular sections. Theories of failure. Plate theory. Prerequisite: CIV-ENGR 276.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIV-ENGR 475</td>
<td><strong>Introduction To Earthquake Engineering</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to the fundamentals of earthquake engineering and earthquake resistant design of civil engineering structures. Prerequisite: MEC-ENGR 285</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIV-ENGR 481</td>
<td><strong>Highway And Traffic Engineering</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Principles of highway engineering and traffic analysis, road/vehicle performance, geometric alignment of highways, traffic analysis and queuing theory, signal design, statistical analysis of traffic data and highway drainage. Prerequisite: MATH 250</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIV-ENGR 484</td>
<td><strong>Pavement Materials And Design</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Properties of materials used in roads, airports, and other pavement construction. Design methods for rigid and flexible pavements. Prerequisite: CIV-ENGR 378WI.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIV-ENGR 486</td>
<td><strong>Planning And Geometric Design Of Highways</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Techniques of highway planning in rural and urban areas. Design of the visible elements of highways.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIV-ENGR 487</td>
<td><strong>Applied Finite Element Analysis</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The study of advanced simulation techniques for the solution to engineering problems. The use of Finite Element Method toward solving mechanical, structural, vibration and potential flow problems will be explored. The use of current commercial simulation tools will be used extensively. Prerequisite: MEC-ENGR 130, CIV-ENGR 275, Matrix Algebra. Offered: Fall</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIV-ENGR 491</td>
<td><strong>Internship</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>For International students who must register for 1 credit hour to cover off-campus employment which is approved as related to their degree by their departmental advisor and ISAO.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 100</td>
<td><strong>Computer Survival: Applications</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 101</td>
<td><strong>Problem Solving And Programming I</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Problem solving and algorithms, design using objects. Use of structured programming, arrays, control structures, strings searching, sorting and files in C++. Coding, testing and debugging using a modern development environment. Prerequisites: MATH 110 or equivalent.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 191</td>
<td><strong>Discrete Structures I</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mathematical logic, sets, relations, functions, mathematical induction, algebraic structures with emphasis on computing applications. Prerequisite: MATH 110</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 201</td>
<td><strong>Problem Solving And Programming II</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 243</td>
<td><strong>C And Unix</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Syntactics and semantics of C applied to dynamic structures, recursion, abstract data types, libraries. General introduction to UNIX operating system and UNIX file system, and use of UNIX system calls in C. Prerequisite: COMP-SCI 101.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 246</td>
<td><strong>Introduction To C++</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Syntax and semantics of C++ applied to object oriented programming concepts of abstract data type, classes, data hiding, polymorphism and inheritance. Prerequisite: COMP-SCI 201, COMP-SCI 243.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 281</td>
<td><strong>Introduction To Computer Architecture</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Data Representation, Number Systems, Boolean Algebra, Sequential Logic, Computer Organization and design, Computer Organization and design, Computer Software, Input and Output Organization. Prerequisite: COMP-SCI 191</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
COMP-SCI 282  ASSEMBLER LANGUAGE PROGRAMMING
Use of an Assembler Language for a virtual machine, Internal Representation of Data and Instructions, the Assembly Process, Loading and Program Relocation and Execution. I/O, Exception Handling, Alternative Architectures. Prerequisite: COMP-SCI 201 and COMP-SCI 281.

3 hrs

COMP-SCI 291  DISCRETE STRUCTURES II
Lattice structures and graph theory, algorithms, Boolean algebra, introduction to computability theory and abstract machines. Prerequisite: CS 191

3 hrs

COMP-SCI 304 WI  ETHICS AND PROFESSIONALISM
Societal and ethical obligations of computer science, IT, and electrical/computer engineering practice. Topics include ethical obligations of professional practice, electronic privacy, intellectual property, and whistle-blowing. This course is a writing-intensive course. Prerequisites: ENGL 225 (Freshman English II) or equivalent and completion of Written English Proficiency Test (WEPT)

3 hrs

COMP-SCI 349  JAVA PROGRAMMING WITH APPLICATIONS
The course covers the syntax and semantics of the Java programming language along with the use of essential class libraries. These topics will be taught in the context of application development. Students will learn how to write small to medium sized Java applications and applets. Specific topics covered include: essential classes in the Java API, interfaces, inheritance, exceptions, graphical user interface components, layout managers, events, I/O classes, Applets, data base access, and multithreading. Prerequisite: COMP-SCI 201 or equivalent Offered: Every Semester

3 hrs

COMP-SCI 352  DATA STRUCTURES AND ALGORITHMS
Abstract data structures and analysis of associated algorithms, abstractions as separate from implementation. Structures include lists, trees, priority queues, advanced tree structures, hashing tables, and graphs. Comparison of efficiency of algorithms as implemented with various data structures. Advanced searching and sorting algorithms, shortest paths, spanning tree and flow algorithms. Introduction to the basic concepts of NP-complete problems. Prerequisites: (must be passed with a C or higher) COMP-SCI 201 (or E&C-ENGR 216 for ECE students), COMP-SCI 291, MATH 210.

3 hrs

COMP-SCI 393  NUMERICAL ANALYSIS AND SYMBOLIC COMPUTATION
Basic elements of numerical analysis: numerical solution of algebraic equations, solution of linear simultaneous algebraic equations, matrices, eigenvalues and eigenvectors, numerical integration and numerical solution of linear differential equations. Use of a symbolic manipulator on both symbolic and numerical computation, applied to the above listed basic elements of numerical analysis. Prerequisites: MATH 250, COMP-SCI 201, COMP-SCI 281.

3 hrs

COMP-SCI 394 R  APPLIED PROBABILITY
Basic concepts of probability theory. Counting and measuring. Probability, conditional probability and independence. Discrete, continuous, and multivariate random variables. Functions of random variables. Sums of independent random variables and transform methods; random number generation and random event generation. Law of large numbers, central limit theorem, inequalities. Their applications to CS and ECE areas are stressed. Prerequisites: COMP-SCI 201, or E&C-ENGR 216, MATH 250, MATH 235 or E&C-ENGR 341

3 hrs

COMP-SCI 411  INTRODUCTION TO TELECOMMUNICATIONS SYSTEMS
Representation of signals and systems, Fourier Series, Fourier Transform, transmission of signal through linear system, amplitude modulation systems, frequency and pulse modulation systems, sampling, time division multiplexing, digital modulation and noise in modulation systems. Prerequisites: COMP-SCI 311, COMP-SCI 394R and MATH 250.

3 hrs

COMP-SCI 416  TELECOMMUNICATIONS SYSTEMS: A SURVEY
Review of Telecommunications techniques; wire, radio, microwave, satellite and optical fiber communications systems; mobile phones, ISDN and broadband ISDN, Signalling System No. 7, CCITT telecommunications standards. Prerequisite: COMP-SCI 311 or consent of instructor.

3 hrs

COMP-SCI 420  INTRODUCTORY NETWORKING AND APPLICATIONS
This introductory course examines the systems aspects of the different LAN/MAN/WAN models, including topics such as protocols, network operating systems, applications, management and wireless communication systems. It also examines how the different models are interconnected using bridges and routers. NOTE: NOT FOR GRADUATE CREDIT. Prerequisites: Senior Standing/Consent of Instructor

3 hrs

COMP-SCI 421  FUNDAMENTALS OF DATA COMMUNICATION

3 hrs

COMP-SCI 421 A  FOUNDATIONS OF DATA NETWORKS
This introductory course examines the analytical aspects of data communications and computer networking. Topics cover protocol concepts and performance analysis that arise in physical, data link layer, MAC sub layer, and network layer. Prerequisites: COMP-SCI 291, COMP-SCI 352, COMP-SCI 394 (recommended). Offered: Every Semester Restrictions: None

3 hrs

COMP-SCI 423  CLIENT/SERVER PROGRAMMING AND APPLICATIONS
Fundamentals of Client/Server programming using socket interface; features of network programming including connection oriented and connectionless communication in multiple environments (Windows, UNIX, and Java); other client/server mechanisms, such as RPC and RMI; and formal object environments designed to facilitate network programming (CORBA, COM and Beans). Prerequisites: COMP-SCI 352, COMP-SCI 431.

3 hrs
COMP-SCI 431  INTRODUCTION TO OPERATING SYSTEMS
Concurrency and control of asynchronous processes, deadlocks, memory management, processor and disk scheduling, parallel processing, file system organization. Prerequisites: COMP-SCI 352, and COMP-SCI 281 (or both ECE-ENGR 226 and EDE 227 for ECE students).

3 hrs

COMP-SCI 441  PROGRAMMING LANGUAGES: DESIGN AND IMPLEMENTATION
Specifications of syntax and semantics, simple statements, precedence, infix, prefix, and postfix notation, global properties of algorithmic languages, scope of declarations, storage allocation, binding time of constituents, subroutines, co-routines and tasks, list processing, string manipulation, run-time representation of program and data structures. Prerequisite: COMP-SCI 352.

3 hrs

COMP-SCI 444  COMPILER/TRANSLATOR DESIGN
This course will teach modern compiler techniques applied to both general-purpose and domain-specific languages. The examples chosen will also convey a detailed knowledge of state-of-the-art based WWW technology. The fundamental goal of programming is to provide instructions to the computer hardware. The primary purpose of the compiler/translator is to facilitate communication from the programmer via some high level language to ultimately the computer hardware. Understanding how compiler/translator are built and operate is important to understanding efficiency of operation and storage. Prerequisite: COMP-SCI 352.

3 hrs

COMP-SCI 451  SOFTWARE ENGINEERING
Taxonomy of software engineering, software lifecycle, process structured vs. data structured analysis and design, structured design methodologies, object oriented design, foundations of software engineering. This course fulfills the senior general education synthesis requirement. Prerequisite: COMP-SCI 352.

3 hrs

COMP-SCI 456  HUMAN COMPUTER INTERFACE

3 hrs

COMP-SCI 457  SOFTWARE ARCHITECTURE: REQUIREMENTS & DESIGN
Introduction to requirements and design engineering with emphasis on organization and presentation of system requirements and designs for customers, users and engineers; validation of requirements and design with needs of system customer; examination of requirement and design changes during the lifetime of a system; transformation of informal ideas into formal detailed descriptions; examination of the different stages in the design process including architectural design, interface design and data structure design; examination of domain modeling criteria and examination of design quality attributes. Also discusses non-functional attributes and project resource allocation. Prerequisite(s): COMP-SCI 352; knowledge of at least one high-level programming language.

3 hrs

COMP-SCI 458  SOFTWARE ARCHITECTURE: TESTING & MAINTENANCE
Introduction of software system testing (including verification), software reuse, software maintenance, and software re-engineering. Prerequisite(s). COMP-SCI 352; knowledge of at least one high-level programming language.

3 hrs

COMP-SCI 461  INTRODUCTION TO ARTIFICIAL INTELLIGENCE
Search space generation, pruning and searching, employment of heuristics in simulation of the cognitive process, an overview of predicate calculus, automatic theorem proving. Prerequisite: COMP-SCI 441.

3 hrs

COMP-SCI 464  APPLIED ARTIFICIAL INTELLIGENCE

3 hrs

COMP-SCI 470  INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS
Database organization and query processing and optimization, database design, schema and sub-schema, data independence, query languages, physical and logical organization of databases, normalization transaction management, database recovery. Prerequisites: COMP-SCI 352.

3 hrs

COMP-SCI 471  DATABASE DESIGN, IMPLEMENTATION AND VALIDATION
This course discusses in detail all aspects of ORACLE database management systems. It covers in detail database design, implementation, and validation using ORACLE. In addition to these, it briefly covers ORACLE implementation, tuning, and implementation on Window NT. The course is suitable for undergrad seniors and professional alike. Prerequisite: COMP-SCI 352.

3 hrs

COMP-SCI 475  INTRODUCTION TO COMPUTER GRAPHICS

3 hrs

COMP-SCI 481  ADVANCED COMPUTER ARCHITECTURE

3 hrs
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP-SCI 490</td>
<td>Special Topics</td>
<td>Selected topics in specific areas of computer science. May be repeated for credit when the topic varies.</td>
</tr>
<tr>
<td>COMP-SCI 490 BC</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 490 DD</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 490 NA</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 490 OS</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 490 R</td>
<td>Special Topics</td>
<td>Selected topics in specific areas of computer science. May be repeated for credit when the topic varies.</td>
</tr>
<tr>
<td>COMP-SCI 490 SD</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 490</td>
<td>Special Topics Computer Science</td>
<td>SK</td>
</tr>
<tr>
<td>COMP-SCI 490 WI</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 490 WN</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 490 WW</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 490 XX</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>COMP-SCI 491</td>
<td>Internship</td>
<td>Students may participate in structured internships under the joint supervision of an employer and a faculty member. The student must carry out significant professional responsibilities that also have academic merit. The number of credit hours is based on the quality of the academic experience. Available for credit/no credit only and students must be in good standing with at least 18 credit hours of CS/IT counting towards the degree. Registration by consent number only; petition forms for CS/IT491 Internships are available in the office of CSEE Division and on the web. Prerequisite: Junior level or above and consent of instructor. Offered: Every Semester Restrictions: None</td>
</tr>
<tr>
<td>COMP-SCI 493</td>
<td>Introduction to Computability, Formal Languages and Automata</td>
<td>Context-free grammars, finite state acceptors and regular languages, pushdown automata, Turing machines, Church’s Thesis, primitive recursive functions, partial recursive functions and computational complexity. Prerequisite: COMP-SCI 291.</td>
</tr>
<tr>
<td>COMP-SCI 494 R</td>
<td>Applied Stochastic Models</td>
<td>Review of basic probability, Poisson counting process, Markovian birth and death processes and elementary queuing theory. Basic models commonly used in computer and telecommunication networks, both in discrete time and continuous time. Stochastic processes as needed for communication theory; Power Spectral Density and Cross Correlation. Prerequisite: CS 394R or permission from instructor. Offered: Fall Semester Restrictions: None</td>
</tr>
<tr>
<td>COMP-SCI 497</td>
<td>Directed Readings</td>
<td>Readings in an area selected by an undergraduate student in consultation with a faculty member. Arrangements must be made prior to registration.</td>
</tr>
</tbody>
</table>
COMP-SCI 498  RESEARCH SEMINAR
Undergraduate research based on intensive readings from the current research literature under the direction of a faculty member. Arrangements must be made prior to registration.
1-3 hrs

COMP-SCI 499  UNDERGRADUATE RESEARCH
Completion of project, including a final written report, under the direction of a faculty member. A prospectus must be accepted prior to registration.
1-3 hrs

ELECTRICAL AND COMPUTER ENGINEERING (ECE)

E&C-ENGR 216  ENGINEERING COMPUTATION
Analysis and synthesis of structured digital computer programs for solving engineering problems in a high level programming language, e.g., Pointers, linked-list in object-oriented language. Intro to symbolic language. Prerequisite: MATH 210
4 hrs

E&C-ENGR 226  LOGIC DESIGN
Design of combinational logic circuits, logic minimization techniques, design of RAM, ROM, PLA, PAL, design of sequential logic circuits, state machine design techniques, digital system design, application of Verilog HDL design throughout the course. Co-requisite: E&C-ENGR 227 (1.)
3 hrs

E&C-ENGR 227  LOGIC DESIGN LABORATORY
Laboratory for 226. Experimental topics related to the design of combinational and sequential logic systems and small digital systems. Co-requisite: E&C-ENGR 226.
1 hr

E&C-ENGR 230  BIOLOGICAL ENGINEERING
An introductory course that examines biological systems from an engineering viewpoint using engineering models. The student is introduced to friendly computer tools to model system behavior of first and second order systems and the effects of diffusion. The tools are then used to study neuron models in terms of diffusion, charge drift and the Einstein relation, ion pumps, membrane potential and the Goldman equation. The tools are then used to study closed loop models of human muscles, eye movements and the body’s thermoregulation system. Prerequisites: MATH 210 and some computer programming skills
3 hrs

E&C-ENGR 276  CIRCUIT THEORY
Kirchhoff's circuit laws, Ohm's Law, nodal and mesh analyses, source transformations, superposition, Thevenin and Norton equivalents, transient analysis of 1st and 2nd order systems. AC circuit analysis, phasors, impedance, sinusoidal steady-state responses, operational amplifiers and PSpice Prerequisites: E&C-ENGR 216, PHYSICS 250 with E&C-ENGR 341 or E&C-ENGR 401H concurrently.
3 hrs

E&C-ENGR 301  FUNDAMENTAL TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING
Undergraduate topics in electrical or computer engineering. Prerequisite: Instructor's consent. Offered: On demand.
1-4 hrs

E&C-ENGR 302  TRAVELING WAVES AND FIELDS
Dimensions in electromagnetic wave propagation; per unit length parameters of common transmission line configurations; derivation of general time-domain and time-harmonic (phasor) forms of transmission line equations; Laplace transform solution to arbitrary time excitations—the bounce diagram; introduction to the concept of voltage and current traveling waves; input impedance, VSWR and power flow on a transmission line; open-and short-circuit, lambda/4 and lambda length lines; Smith Chart & applications; lossy lines; complex vectors; review of Gauss's, Faraday and Ampere's laws of electromagnetism and differential form of Maxwell's equations; time-harmonic form of Maxwell's equations; Poynting vector; boundary conditions; wave equation from Maxwell’s equations; uniform plane waves in lossy and lossless media; power flow in uniform plane waves; skin depth; normal incidence of uniform plane waves on good conductors. Prerequisites: MATH 250, PHYSICS 250, Pre-/Co-requisite: E&C-ENGR 341 or E&C-ENGR 401H concurrently.
3 hrs

E&C-ENGR 303  TRAVELING WAVES AND FIELDS-LABORATORY
Students will be required to write computer programs that exploit the MATLAB toolbox features and write short technical reports on the results. Typical projects are: (a) signal amplitude and delay distortion on lossy transmission lines, (b) performance comparison of transient behavior of PCB, stripline, microstrip transmission line configurations and (c) cross-talk modeling on transmission lines (optional). Prerequisite: PSpice and MATLAB knowledge/proficiency. Co-requisite: E&C-ENGR 302
1 hr

E&C-ENGR 316  MICROCOMPUTER FUNDAMENTALS
Computer arithmetic, combinational and sequential circuit analysis and design. Computer organization, bus control, input/output transfers, and interrupts. Introduction to microprocessor-based systems. Prerequisites: E&C-ENGR 216 with E&C-ENGR 317 concurrently. No longer offered, please see advisor.
3 hrs

E&C-ENGR 317  MICROCOMPUTER FUNDAMENTALS LABORATORY
Laboratory for E&C-ENGR 316. Combinational and sequential logic. 8-bit microprocessors. No longer offered, please see advisor.
1 hr

E&C-ENGR 326  LOGIC DESIGN
Digital electronics, integrated circuit level logic design, algorithmic state machines, microprocessor architecture and interfacing and digital systems design methodology. Must be taken concurrent with E&C-ENGR 327. Prerequisites: E&C-ENGR 316 with a C or higher. No longer offered, please see advisor.
3 hrs
E&C-ENGR 327  Logic Design Laboratory
Laboratory for 326. Experimental topics related to the design of sequential logic systems and small digital systems. Must be taken concurrent with E&C-ENGR 326. Prerequisites: E&C-ENGR 317 with a C or higher. No longer offered, please see advisor.

1 hr

E&C-ENGR 330  Electronic Circuits
Semiconductor device physics, elementary analysis and design of integrated analog electronic circuits that utilize diodes, BJTs, and MOSFET's in current mirrors, differential amplifiers and multistage amplifiers with active loads and operational amplifiers. Prerequisite: E&C-ENGR 276 with a C or higher, Co-requisite: E&C-ENGR 331

4 hrs

E&C-ENGR 331  Electronic Circuits Laboratory I
Semiconductor devices to include pn junction diodes, bipolar and field effect transistors, operational amplifiers and applications, diode circuit applications, current mirrors, differential amplifiers and amplifiers with active loads. Prerequisite: E&C-ENGR 378, Co-requisite: E&C-ENGR 330.

1 hr

E&C-ENGR 341  Engineering Mathematics
Linear homogeneous and inhomogeneous differential equations, Laplace transform with applications; trigonometric and complex (exponential) Fourier series; Fourier transforms; Z-transforms; Matrices-properties and definitions; Gaussian elimination, linear systems, Cramer's rule, rank and inverse of a matrix; eigenvalue and eigenvectors; Complex number system, DeMoivre's theorem, analytic functions and Cauchy-Kiemann equations, Taylor and Laurent series, Cauchy's integral formulas, Cauchy residue theorem; multi-valued functions. Their applications to transient analysis of electrical circuits, communication systems, EM theory, etc. will be discussed. Prerequisites: MATH 250 and E&C-ENGR 216. Students who have MATH 345 should enroll in 3 credit hours.

3-4 hrs

E&C-ENGR 358  Control Systems
Study of feedback techniques, with applications to control systems. Includes modeling, applications of Bode plot, root locus, state-variable, and Nyquist methods. Prerequisite: E&C-ENGR 380. Offered: Every year; Winter.

3 hrs

E&C-ENGR 366  Power Engineering
Magnetic circuitry in general and in machinery; DC machine theory, operation, applications; transformer circuits, synchronous machine theory, operation applications; basic principles of energy conversion; use of matrices; basic principles of power transmission and control. Prerequisites: E&C-ENGR 376 with E&C-ENGR 302 concurrently. Offered: Winter.

3 hrs

E&C-ENGR 376  Circuit Theory II

3 hrs

E&C-ENGR 378  Systems Lab
Introduction to the use and limitations of basic instruments used in electrical testing and measurement. Experimental techniques and laboratory safety. Data gathering, interpretation and presentation. Statistical data evaluation methods. Preparation of laboratory reports. Experimental work supporting theoretical concepts developed in E&C-ENGR 276. Prerequisite: E&C-ENGR 276.

2-3 hrs

E&C-ENGR 380  Signals And Systems
Continuous and discrete-time signals and systems, linearity and time-invariance, impulse response and convolution. Fourier analysis of discrete and continuous signals and systems and the application of Laplace, z, and Fourier transforms. Prerequisite: E&C-ENGR 341, and E&C-ENGR 381 concurrently. Offered: Fall

4 hrs

E&C-ENGR 381  Signals And Systems Lab
Computer Laboratory for E&C-ENGR 380. Various signal processing software programs (MATLAB and DSP) are used to investigate properties and applications of continuous and discrete time signals and systems. Corequisite: E&C-ENGR 380. Offered: Fall

1 hr

E&C-ENGR 400  Problems In Electrical And Computer Engineering
Analytic or experimental problems pertaining to electrical or computer engineering. Prerequisites: Senior standing, instructor's approval and an approved petition from his or her degree coordinator.

1-4 hrs

E&C-ENGR 401  Topics In Electrical And Computer Engineering
Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

1-4 hrs

E&C-ENGR 401  Topics in Electrical Engineering
AN

1-4 hrs

E&C-ENGR 401 A5  Topics In Electrical Engineering

1-4 hrs
E&C-ENGR 401 CA  TOPICS IN ELECTRICAL ENGINEERING

1-4 hrs

E&C-ENGR 401  TOPICS IN ELECTRICAL ENGINEERING

CI

1-4 hrs

E&C-ENGR 401  SPECIAL TOPICS ECE

DE

1-4 hrs

E&C-ENGR 401 FE  TOPICS IN ELECTRICAL ENGINEERING

1-4 hrs

E&C-ENGR 401 H  TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING

1-4 hrs

E&C-ENGR 401 NN  TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING

Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

1-4 hrs

E&C-ENGR 401 PE  TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING

Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

1-4 hrs

E&C-ENGR 401 PG  TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING

Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

1-4 hrs

E&C-ENGR 401 PL  TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING

Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

1-4 hrs

E&C-ENGR 401 RB  TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING

Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

1-4 hrs

E&C-ENGR 401 RD  TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING

Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

1-4 hrs

E&C-ENGR 401 RS  TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING

Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

1-4 hrs

E&C-ENGR 401 WN  TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING

Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

1-4 hrs

E&C-ENGR 401 XX  TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING

Topics covering current and new technical developments in electrical or computer engineering. Prerequisites: Senior standing and instructor's approval.

1-4 hrs

E&C-ENGR 402 WI  SENIOR DESIGN I

First capstone design course in electrical and computer engineering. Provides and accounts for laboratory, library, research and other work needed for the development of the project proposal. Stresses written and oral presentations and ethics. Prerequisites: E&C-ENGR 335, E&C-ENGR 380, and E&C-ENGR 428R. Must have passed the WEPT test and can only be taken if student is within three semesters of graduation.

2 hrs

E&C-ENGR 403 SENIOR DESIGN II

Second capstone design course in electrical and computer engineering. Project management, professional engineering practice, economic, environmental and safety considerations in project design, the development of written and oral presentation skills and working in teams. Provides laboratory experiences in prototyping, fabrication and troubleshooting of a design project. Prerequisite: E&C-ENGR 402WI.
The laboratory introduces the students to a variety of challenging design projects using microcontroller interfacing techniques to develop real world applications, such as digital thermometer and popular microcontrollers and how to take advantage of input/output options that include binary ports, A/D and D/A converters, communication ports, and interfacing techniques for various applications. Prerequisites: E&C-ENGR 426 and E&C-ENGR 427 Co-requisite: E&C-ENGR 429

3 hrs

E&C-ENGR 429 EMBEDDED SYSTEMS LAB

The laboratory introduces the students to a variety of challenging design projects using microcontroller interfacing techniques to develop real world applications, such as digital thermometer and digital pressure monitoring systems. Students must produce an individual design project. Prerequisite: E&C-ENGR 226 and E&C-ENGR 227 Co-requisite: E&C-ENGR 428R

1 hr

E&C-ENGR 430 ELECTRONIC CIRCUITS II

Study of feedback amplifiers, regulated power supplies, sinusoidal and nonlinear oscillators, integrated circuit analog and digital devices, digital electronics. Prerequisite: E&C-ENGR 330. Offered: On demand.

3 hrs

E&C-ENGR 443 MICROCOMPUTER LABORATORY

Design & performance simulation of microwave filters and active microwave circuits; comparative analysis of impedance transformers; use of CAD tools in microwave circuit design. Prerequisites: E&C-ENGR 414 Restrictions: MATLAB proficiency required. Offered on demand.

1 hr

E&C-ENGR 444 MEMORY ENGINEERING ANDDeprecated: Winter
E&C-ENGR 435  DESIGN AND SIMULATION OF VLSI CIRCUITS
Design of NMOS and CMOS integrated circuits with emphasis on digital applications. Device models are developed for circuit simulation. Prerequisite: E&C-ENGR 330 or instructor's consent.

3 hrs

E&C-ENGR 436  POWER ELECTRONICS I
Power electronic device characteristics, important circuit and component concepts, phase controlled rectifiers, line communicated inverters and AC phase control. Includes laboratory projects. Prerequisite: E&C-ENGR 330.

3 hrs

E&C-ENGR 445  ROBOTIC CONTROL AND INTELLIGENCE
Introduces robotics; robot system characteristics; robot motive power systems; geometric structure of robots; sensors and feedback; control applications and algorithms; data acquisition and output actuation functions; robots and Artificial Intelligence; microprocessor applications in robotics. Prerequisites: E&C-ENGR 330 and E&C-ENGR 226, or E&C-ENGR 426. Offered: on demand.

3 hrs

E&C-ENGR 454  ROBOTIC CONTROL AND INTELLIGENCE
Introduces robotics; robot system characteristics; robot motive power systems; geometric structure of robots; sensors and feedback; control applications and algorithms; data acquisition and output actuation functions; robots and Artificial Intelligence; microprocessor applications in robotics. Prerequisites: E&C-ENGR 330 and E&C-ENGR 226, or E&C-ENGR 426. Offered: on demand.

3 hrs

E&C-ENGR 458  AUTOMATIC CONTROL
Techniques for feedback control system modeling and design. Includes applications of Bode plots, root locus, Nyquist methods, state-variables, compensator design, and computational aids. Prerequisites: E&C-ENGR 341 and E&C-ENGR 380

3 hrs

E&C-ENGR 460  ELECTROMECHANICAL CONVERSION I
Magnetic circuitry in general and in machinery; DC machine theory, operation, applications; transformer circuits, synchronous machine theory, operation applications; basic principles of energy conversion; introduction to power electronics; and basic principles of power transmission and control are covered. Prerequisite: E&C-ENGR 276 or E&C-ENGR 302.

3 hrs

E&C-ENGR 461  ELECTROMECHANICAL CONVERSION II
Application of fundamentals and concepts of power systems to practical power plan and industrial applications. Identification of the significant internal components of power system equipment. Single and Three Phase Circuits, DC and AC Generators/Alternators, Transformers, DC and AC Motors, DC and AC transmission, and System Electrical Protection. Prerequisite: E&C-ENGR 460.

3 hrs

E&C-ENGR 462  SYMMETRICAL COMPONENTS ANALYSIS OF POWER SYSTEMS
Short circuit analysis using symmetrical components. Simultaneous faults and open conductors. Prerequisite: E&C-ENGR 460 Offered: On demand.

3 hrs

E&C-ENGR 464  ELECTRIC TRANSPORTATION AND INDUSTRIAL DRIVES
Electric vehicle propulsion and industrial drives; review of DC and AC machine principles, traction motor requirements and performance, DC and AC industrial drives, heating effects. Prerequisite: E&C-ENGR 460. Offered: On demand

3 hrs

E&C-ENGR 466  POWER SYSTEMS I
Power System fundamentals; Methods of power system analysis and design; Modeling of power systems components such as transmission lines, transformers and generators; Analysis of steady state operation of power system and unbalanced conditions. Prerequisites: E&C-ENGR 460 or E&C-ENGR 276, and E&C-ENGR 341 or E&C-ENGR 401H.

3 hrs

E&C-ENGR 467  POWER SYSTEMS II

3 hrs

E&C-ENGR 468  ELECTRIC POWER DISTRIBUTION SYSTEMS
Operation and design of utility and industrial distribution systems including distribution system planning; load characteristics; application of distribution transformers; design of subtransmission lines, distribution substations, primary systems, secondary systems; application of capacitors; voltage regulation and reliability. Prerequisite: E&C-ENGR 460. Offered: On Demand.

3 hrs

E&C-ENGR 469  COMPUTER APPLICATIONS TO POWER SYSTEMS
Load flow, fault, network reduction, and transient stability studies on digital and analog computers. Prerequisites: E&C-ENGR 460K. Offered: On demand.

3 hrs

E&C-ENGR 470  RELIABILITY OF ELECTRIC POWER SYSTEMS
Principles of reliability as applied to Power Systems with an overview of current methods to measure reliability of Power Systems are introduced. Analytical and Monte Carlo models for component state and system state duration, with contingency analysis and linear programming for optimal power flow are also covered. Restoration times and cost assessment after component or system failures due to internal or external problems provide focus to practical operating principles. Prerequisite: E&C-ENGR 460, COMP-SCI 394R or equivalent.

3 hrs

E&C-ENGR 472  POWER GENERATION SYSTEMS
Multi discipline survey of power generation systems and subsystems, including coal-fired steam, co-generation and combined cycle, and combustion turbines. With a goal of reviewing all the major subsystems, this course exposes the electrical engineer to all the mechanical, thermodynamic, and chemical processes of power generation systems. Prerequisite: Senior standing
E&C-ENGR 474  INTRODUCTION TO COMMUNICATION SYSTEMS
Introduction to principles and fundamentals of communication systems. Signal representation and analysis, Fourier transform and applications, probability and random variables, analog and digital modulation techniques. Prerequisites: E&C-ENGR 380. Offered: Every year, Fall.

3 hrs

E&C-ENGR 476  INTRODUCTION TO WIRELESS COMMUNICATION SYSTEMS
Principles of wireless communication analysis and design. Digital communication basics, cellular radio, wireless PCS communications, multiple access techniques, channel coding and equalization, and standards of digital cellular/PCS systems. Prerequisites: E&C-ENGR 474. Offered: On demand.

3 hrs

E&C-ENGR 478  MODULATION AND TRANSMISSION OF SIGNALS

3 hrs

E&C-ENGR 480  DIGITAL SIGNAL PROCESSING
Concepts, analytic tools, design techniques used in computer processing of signals: signal representation, sampling, discrete-time system analysis, recursive/non-recursive filters, design/implementation of digital filters. Prerequisites: E&C-ENGR 226 and E&C-ENGR 474. Offered: On demand.

3 hrs

E&C-ENGR 481  DIGITAL SIGNAL PROCESSING LABORATORY

1 hr

E&C-ENGR 482  ANALOG SIGNAL PROCESSING
Fundamentals of network synthesis with emphasis on the design of analog filters; the approximation problem, sensitivity, LC and RC passive filters, RC active filters, and switched capacitor filters. Prerequisites: E&C-ENGR 330 and E&C-ENGR 380. Offered: On demand.

3 hrs

E&C-ENGR 483  ANALOG SIGNAL PROCESSING LABORATORY
Laboratory for E&C-ENGR 482. Analog filters based upon active-RC circuits. Integrated circuit universal active filters and switched capacitor active filters. Prerequisites: E&C-ENGR 331 with E&C-ENGR 482 concurrently. Offered: On demand.

1 hr

E&C-ENGR 484  DIGITAL IMAGE PROCESSING
Fundamentals of digital image processing hardware and software, including digital image acquisition, display, compression, transforms and segmentation. Prerequisites: E&C-ENGR 380 and experience in a high-level programming language. Offered: On demand.

3 hrs

E&C-ENGR 486  PATTERN RECOGNITION
Pattern recognition techniques of applications such as automatic recognition for speech, visual inspection systems, clinical medicine, automatic photographic recognition systems and advanced automation systems. Prerequisite: Senior standing. Offered: On demand.

3 hrs

E&C-ENGR 488  INTRODUCTION TO DIGITAL IMAGE PROCESSING
Fundamentals of digital image processing hardware and software, including digital image acquisition, image display, image enhancement and compression. Prerequisites: Senior standing; experience in high-level language. Offered: On demand.

3 hrs

E&C-ENGR 490  DIGITAL COMPUTER APPLICATIONS IN ENGINEERING

3 hrs

E&C-ENGR 491  INTERNSHIP
Students may participate in structured internships under the joint supervision of an employer and a faculty member. The student must carry out significant professional responsibilities that also have academic merit. The number of credit hours is based on the quality of the academic experience. Available for credit/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 E&C-ENGR 491 internships are available in the office of CSEE Division and on the web. Prerequisite: At least 18 hours of E&C-ENGR courses toward the degree.

6 hrs

E&C-ENGR 496  SPECIAL TOPICS
Selected Topics in specific areas of electrical or computer engineering. May be repeated for credit when the topic varies. Prerequisite: At least 18 hours of ECE courses toward the degree. Offered: On demand.

1-4 hrs

E&C-ENGR 497  DIRECTED READINGS
Readings in an area selected by an undergraduate student in consultation with a faculty member. Arrangements must be made prior to registration. Prerequisite: Consent of instructor Offered: On demand

1-4 hrs

E&C-ENGR 498 RESEARCH SEMINAR
Undergraduate research based on intensive readings from the current research literature under the direction of a faculty member. Arrangements must be made prior to registration. Prerequisite: Consent of instructor Offered: On demand

1-4 hrs

E&C-ENGR 499 UNDERGRADUATE RESEARCH
Completion of a project, including a final written report, under the direction of a faculty member. A prospectus must be accepted prior to registration. Prerequisite: Consent of instructor Offered: On demand

1-3 hrs

INFORMATION TECHNOLOGY (IT)

INFO-TEC 222 MULTIMEDIA PRODUCTION AND CONCEPTS
Multimedia production and concepts will give an overview of multimedia technology and communication theory needed to deliver information and to produce interactive presentations for the web, for CD-ROM, and for in-person presentations and demos. The course offers exposure to software, hardware, other multimedia technologies, authoring and copyright matters. Prerequisite(s): COM-SCI 101 Offered: Winter Semester

3 hrs

INFO-TEC 290 SPECIAL TOPICS
Selected topics in specific subject areas of Information Technology which are not part of the regular offerings. Prerequisite: Approval of instructor. Offered: Winter

1-3 hrs

INFO-TEC 321 INTRODUCTION TO COMPUTING RESOURCES ADMINISTRATION
This introductory course is designed to give an overview of a wide variety of technical, interpersonal, documentation, and managerial skills needed to become an effective systems administrator. Prerequisite: COMP-SCI 281 Offered: Winter

3 hrs

INFO-TEC 350 OBJECT-ORIENTED SOFTWARE DEVELOPMENT
Application of object-oriented programming languages as a means to implement object oriented designs, polymorphism through inheritance and interfaces, design methods such as Responsibility Driven Design and such reusable design techniques as abstract classes and frameworks. Event-driven programming and the Java Swing classes for constructing interactive Graphical User Interfaces (GUIs), the basics of the Unified Modeling (UML) and elementary design patterns. Prerequisites: COMP-SCI 201 and COMP-SCI 352. Cross listed as COMP-SCI 350, and COMP-SCI 490OS

3 hrs

INFO-TEC 490 SPECIAL TOPICS
Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

INFO-TEC 490 A SPECIAL TOPICS
Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

INFO-TEC 490 C SPECIAL TOPICS
Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

INFO-TEC 490 IT SPECIAL TOPICS
Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

INFO-TEC 490 J SPECIAL TOPICS
Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

INFO-TEC 490 NA SPECIAL TOPICS
Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

INFO-TEC 490 NS SPECIAL TOPICS
Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.

1-3 hrs

INFO-TEC 490 SD SPECIAL TOPICS
Selected topics in specific areas of Information Technology/ Computer Science. May be repeated for credit when the topic varies.
INFO-TEC 490 WD  
SPECIAL TOPICS
Selected topics in specific areas of Information Technology/Computer Science. May be repeated for credit when the topic varies.

INFO-TEC 491

INTERNSHIP
Students may participate in structured internships under the joint supervision of an employer and a faculty member. The student must carry out significant professional responsibilities that also have academic merit. The number of credit hours is based on the quality of the academic experience. Available for credit/no credit only, and students must be in good standing with a least 18 credit hours of CS/IT counting towards the degree. Registration by consent number only: petition forms for CS/IT 491 Internships are available in the CSEE Division Office. Prerequisite: AT least 18 hours of CS/IT that counts towards the B.I.T. degree.

MECHANICAL ENGINEERING (ME)

MEC-ENGR 111  
ESSENTIAL ENGINEERING
Introduction to the practice and history of engineering including its impact on human history, product design/development and its relationship to the ecosystem, professionalism and ethics, the engineering approach to solving real-world problems, engineering communications and calculations, engineering teamwork and case studies. (Same as CIV-ENGR 111).

3 hrs

MEC-ENGR 130  
ENGINEERING GRAPHICS
Introduction to Engineering Graphics with the use of the Computer Aided Design tools AutoCAD and SolidWorks. Introduction to 2D design with AutoCAD includes: basic features, layer control, geometric constructions, orthographic projections, dimensioning and notes, tolerancing, section views, and working drawings. Introduction to 3D design with SolidWorks includes: part modeling, revolved features, sweeps, lofts, assembly modeling and engineering drawings. No previous 2D or 3D CAD experience is necessary to take this class. Semester Offered: Fall/Winter

3 hrs

MEC-ENGR 130 L  
ENGINEERING GRAPHICS LAB
Supplemental lab instruction and assistance for MEC-ENGR 130.

0 hrs

MEC-ENGR 131  
ENGINEERING GRAPHICS-3D DESIGN
Introduction to Engineering Graphics using the 3D Computer Aided Design tool SolidWorks. Introduction to 3D design with SolidWorks includes: part modeling, revolved features, sweeps, lofts, assembly modeling, and engineering drawings. Some previous 2D AutoCAD experience is required to take this class. NOTE: This class starts halfway through the semester by joining in with MEC-ENGR 130 when they finish AutoCAD and begin SolidWorks. Prerequisite: 2D AutoCAD experience.

1 hr

MEC-ENGR 131 L  
ENGINEERING GRAPHICS 3D DESIGN LAB
Supplemental lab instruction and assistance for MEC-ENGR 131.

0 hrs

MEC-ENGR 211  
THE ENGINEERING ENTERPRISE
The engineering enterprise course covers four topics essential for engineering students with new venture creation interests: creating economic value, leadership, finance, and marketing. The primary objective of this course is to motivate the student to think as a blend of an engineer and a businessperson. (Same as CIV-ENGR 211). Pre/corequisite: MEC-ENGR 111

3 hrs

MEC-ENGR 219  
COMPUTER PROGRAMMING FOR ENGINEERS
Analysis and synthesis of structured computer algorithms for solving engineering problems using high level programming tools such as Excel, Matlab, Fortran and/or C++. (Same as CIV-ENGR 219) Prerequisite: MATH 210

3 hrs

MEC-ENGR 220  
ELECTRIC CIRCUITS
Introduction to electric circuits for civil and mechanical engineering students. Prerequisites: MEC-ENGR 219, PHYSICS 250 Corequisite MATH 345 Offered: Winter

3 hrs

MEC-ENGR 285  
ENGINEERING DYNAMICS
Basic fundamentals of particle and rigid body dynamics; energy and momentum methods; computer use. Prerequisite: CIV-ENGR 275.

3 hrs

MEC-ENGR 299  
ENGINEERING THERMODYNAMICS
Fluid properties, work and heat, first law, second law, entropy, applications to vapor and ideal gas processes. Prerequisites: PHYSICS 240 and MATH 220.

3 hrs

MEC-ENGR 301  
FUNDAMENTAL TOPICS IN MECHANICAL ENGINEERING
Current and new technical developments in mechanical engineering. Prerequisite: instructor's consent.

3 hrs

MEC-ENGR 301 E  
TOPICS IN MECHANICAL ENGINEERING

3 hrs
MEC-ENGR 306  COMPUTER-AIDED ENGINEERING
Principles, analysis and application of numerical methods for the solution of engineering problems. Computer implementation. Prerequisites: MEC-ENGR 319 and MATH 345
3 hrs

MEC-ENGR 311  THE TECHNICAL ENTREPRENEUR
The guiding principal for the course is that entrepreneurs are innovators and operate in an uncertain and risky environment. The course looks at the entrepreneurial mindset and the process of new product line launch. (Same as CIV-ENGR 311). Prerequisite: MEC-ENGR 211
3 hrs

MEC-ENGR 319  ENGINEERING COMPUTATION AND STATISTICS
Statistical distribution functions and application to engineering problems. Limited treatment of curve-fitting and time-series analysis. Introduction to factorial design. (Same as CE 319) Prerequisite: MEC-ENGR 219 and MATH 220
3 hrs

MEC-ENGR 324  ENGINEERING MATERIALS
The nature of the structure of engineering materials. The relationship of material structure to the physical properties. Mechanical behavior of engineering materials. Prerequisites: MEC-ENGR 299, CIV-ENGR 276 and CHEM 211.
4 hrs

MEC-ENGR 351  FLUID MECHANICS
Concepts of the statics and dynamics of fluids, with emphasis on principles of continuity, momentum and energy. Boundary layers, dimensional analysis and drag are covered briefly. Thorough treatment of pipe flow. (Same as CE 351.) Prerequisites: ME 285
3 hrs

MEC-ENGR 352  INSTRUMENTATION & MEASUREMENTS LAB I
Static and dynamic errors; experiment design; instrumentation selection and calibration; measurement of voltage, resistance, amperage, duration, frequency, displacement, velocity, acceleration, strain, force and torque. Prerequisites: ME 285, CE 276, MATH 345, and ECE 276 or concurrently.
3 hrs

MEC-ENGR 360  THERMAL SYSTEM DESIGN
Gas and vapor mixtures, cycles, availability, imperfect gases, thermodynamic relations, combustion, chemical equilibrium, power systems and design projects. Effects of design choices on the earth and living systems. Prerequisites: MEC-ENGR 299, MATH 250; Co-requisite: MEC-ENGR 351
3 hrs

MEC-ENGR 362  INSTRUMENTATION & MEASUREMENTS LAB II
Continuation of 352 with emphasis on instruments to measure temperature, pressure, fluid flow, fluid velocity, sound, spectral content and emissions. Prerequisites: MEC-ENGR 299, MEC-ENGR 351 and MEC-ENGR 352. Corequisite: MEC-ENGR 399.
3 hrs

MEC-ENGR 380  MANUFACTURING METHODS
Introduction to manufacturing processes with emphasis on those aspects most relevant to methods, problems in force analysis, and practicum and experimentation in machine tool applications. Prerequisites: MEC-ENGR 324.
3 hrs

MEC-ENGR 385  SYSTEM DYNAMICS
Kinematics of mechanical systems. Introduction to the modeling and analysis of dynamic mechanical systems. Computer analysis. Prerequisites: MEC-ENGR 285 and MATH 345.
3 hrs

MEC-ENGR 390  ENGINEERING COOP/INTERNSHIP
Students may participate in structured Engineering Coop/ Internship under the supervision of employer. They must carry out significant professional responsibilities and whatever additional assignments are determined by the employer. Prerequisite: Junior level or above or consent of instructor.
0 hrs

MEC-ENGR 399  HEAT AND MASS TRANSFER
3 hrs

MEC-ENGR 400  PROBLEMS
Special design, experimental and analytical problems in mechanical engineering.
1-6 hrs

MEC-ENGR 401  TOPICS IN MECHANICAL ENGINEERING
Current and new technical developments in mechanical engineering. Prerequisite: instructor's consent.
1-3 hrs
MEC-ENGR 401 BN  
TOPICS IN MECHANICAL ENGINEERING
1-3 hrs

MEC-ENGR 401 FE  
TOPICS IN MECHANICAL ENGINEERING
1-3 hrs

MEC-ENGR 401 M  
TOPICS IN MECHANICAL ENGINEERING
1-3 hrs

MEC-ENGR 401 P  
TOPICS IN MECHANICAL ENGINEERING
1-3 hrs

MEC-ENGR 401 SA  
TOPICS IN MECHANICAL ENGINEERING
1-3 hrs

MEC-ENGR 401 V  
TOPICS IN MECHANICAL ENGINEERING
1-3 hrs

MEC-ENGR 411  
BIOMECHANICS
This course is designed to provide students with an introduction to the engineering principles of biomechanics. Following a general introduction to anatomical terminology, students will be exposed to three primary sub-disciplines of biomechanics including kinetics and kinematics of human movement, muscle mechanics, and biomaterials. Students will become familiar with measurement techniques and current research being done within each of these units through lectures and in-class discussions and presentations of relevant journal articles. A final semester project, culminating in a NIH-style research proposal, will be developed throughout the semester in one of the three units presented.
3 hrs

MEC-ENGR 414  
MATERIAL SCIENCE FOR ADVANCED APPLICATIONS
Study of the physical and mechanical metallurgy of alloy systems of interest in engineering applications. Prerequisite: MEC-ENGR 324.
3 hrs

MEC-ENGR 415  
FEEDBACK CONTROL SYSTEMS
Introduction to feedback control theory for linear dynamic systems. Topics include root locus analysis, frequency response analysis, and controller design. Prerequisite: MEC-ENGR 385
3 hrs

MEC-ENGR 420  
HUMAN POWERED VEHICLE DESIGN LAB
Introduction to the science of human powered vehicles (HPV) providing the background necessary for the design of such vehicles. Students will learn and utilize engineering design practices and apply them toward the creation of an aerodynamic, highly engineered land based HPV. Prerequisite: Consent of Instructor
3 hrs

MEC-ENGR 424  
NON-METALLIC ENGINEERING MATERIALS
Structures, properties and applications of ceramics, glasses, cermets, polymers and composite materials. Prerequisite: MEC-ENGR 324.
3 hrs

MEC-ENGR 431  
EXPERIMENTAL METHODS IN FLUID FLOW & HEAT TRANSFER
Laboratory experiments involving fundamental mechanisms and phenomena associated with fluid flow and heat transfer. Current experimental methods and techniques employed. Prerequisites: MEC-ENGR 362 and MEC-ENGR 399.
3 hrs

MEC-ENGR 440  
HEATING AND AIR CONDITIONING
General principles of thermodynamics, heat transfer, and fluid dynamics are used to calculate building loads, size equipment and ducts, and evaluate system performance in maximizing human comfort. Consideration of indoor air quality and human health. Prerequisites: MEC-ENGR 360 and MEC-ENGR 399
3 hrs

MEC-ENGR 441  
INTERMEDIATE FLUID MECHANICS
Topics in potential and viscous flow theory, and computational fluid dynamics. Prerequisite: MEC-ENGR 351.
3 hrs

MEC-ENGR 444  
COMPOSITE MATERIALS
A survey of composite materials used in engineering, emphasizing fiber-reinforced composites as well as laminate and particulate composites. Prerequisite: MEC-ENGR 324.
3 hrs

MEC-ENGR 447  
CONTRACTS AND LAW FOR ENGINEERS
Law of contracts, including types, construction, interpretation, performance, and termination. Construction and Engineering service contracts: Proposals, general and financial conditions, specifications and drawings. Corporate and professional and personal liability, insurance and bonds, property, evidence, arbitration and mediation. Offered: Fall
MEC-ENGR 449  ENVIRONMENTAL COMPLIANCE, AUDITING & PERMITTING
Statutes, regulations and permitting for air hazardous wastes and storage tanks. Asbestos, radon, EMF, and emerging areas of regulatory concern. Siting issues. Criminal and civil enforcement. Crosslisted as CIV-ENGR 449 Prerequisite: Junior standing within the degree program Offered: Winter

3 hrs

MEC-ENGR 451  POWER PLANT DESIGN
Preliminary component and system design. Optimum design of boilers, steam turbines, condensers and cooling towers and their integration into a system to minimize production costs and impact on the environment. Prerequisites: MEC-ENGR 360 and MEC-ENGR 399.

3 hrs

MEC-ENGR 452  ADVANCED MECHANICS OF MATERIALS
Analysis of more complicated problems in stresses and strains. Prerequisite: CIV-ENGR 276.

3 hrs

MEC-ENGR 453  EXPERIMENTAL STRESS ANALYSIS
Photoelastic, electric strain gage, brittle lacquer methods of experimental stress analysis for static loads. Strain gage work includes strain rosettes. Prerequisite: CIV-ENGR 276.

3 hrs

MEC-ENGR 454  POWER GENERATION SYSTEMS
Fundamentals of the power industry in a format suitable for all engineering disciplines. Survey of electric power systems, including fossil and nuclear steam cycles, combustion turbines, combines cycles, and renewable such as solar and wind. Introduction to major machinery components, systems, controls, and an overview of fuels, emissions, and emission control technologies. Offered: Winter

3 hrs

MEC-ENGR 455  DIGITAL CONTROL OF MECHANICAL SYSTEMS
Introduction to digital control systems. Topics include Z-transforms, sampling, stability analysis, and digital controller design. Prerequisites: MEC-ENGR 415 and MATH 345.

3 hrs

MEC-ENGR 456  MECHANICAL COMPONENT DESIGN
Introduction to mechanical engineering design and its impact on human history, principles of design with ductile and brittle materials for static and dynamic loading, classical and reliability-based factors of safety, fracture mechanics in design, application to the design of selected machine components. Prerequisites: ME 324, and ME 385

3 hrs

MEC-ENGR 457  MICROCOMPUTER CONTROL OF MECHANICAL SYSTEMS
Synergistic combination of control, sensors, actuators, electronics, computers, and real-time programming. Actuator and computer fundamentals; logic devices; electronic components including transistors, operational amplifiers; and power amplifiers; interface design and control programming. Prerequisites: MEC-ENGR 362 and MEC-ENGR 415

3 hrs

MEC-ENGR 458  MODERN CONTROL SYSTEMS
Controller design for multiple-input/multiple-output systems; controllability and observability; stochastic control problems; regulators and tracking controllers; observers. Prerequisite: MEC-ENGR 415

3 hrs

MEC-ENGR 460  ELECTROMECHANICAL CONVERSION
Magnetic circuitry in general and in machinery; DC machine theory, operation application; transformer circuits, synchronous machine theory, operation application: basic principles of energy conversion; use of matrices; basic principles of power transmission and control.

3 hrs

MEC-ENGR 461  ELECTROMECHANICAL CONVERSION II
Application of fundamental and concepts of power systems to practical power plant and industrial applications. Identification of the significant internal components of power system equipment: Single and Three Phase Circuits, DC and AC Generators/Alternators, Transformers, DC and AC Motors, DC and AC Transmission, and System Electrical Protection. Prerequisite: MEC-ENGR 460

3 hrs

MEC-ENGR 466  APPLIED OPTIMIZATION AN DECISION MODELING
Introduction to mathematical programming techniques and applications. Linear and integer programming, transporation models, multiple objective and goal programming. Prerequisite: MEC-ENGR 306

3 hrs

MEC-ENGR 476  MACHINE TOOL DESIGN
Methodology of machine tool design. Dynamic modeling, analysis, synthesis, and simulation of machine tools to meet functional requirements and design constraints. Prerequisites: MEC-ENGR 285 and MEC-ENGR 306.

3 hrs

MEC-ENGR 483  MANUFACTURING AUTOMATION
This course covers fundamentals underlying contemporary manufacturing automation. The following two aspects of manufacturing automation will be emphasized: (1) computer based systems for automating and controlling manufacturing processes such as numericaly controlled machining and material handling robots; and (2) use of software systems in facilitating information exchange between different components of manufacturing decision support systems. The course will be taught using a project-based learning approach. Prerequisites: MEC-ENGR 319 and MEC-ENGR 380
3 hrs

MEC-ENGR 484  VIBRATION ANALYSIS
Vibration theory with application to mechanical systems. Prerequisites: MEC-ENGR 385

3 hrs

MEC-ENGR 486  INTRODUCTION TO FINITE ELEMENT METHODS
The application of matrix operations, energy concepts and structural mechanics to the development of the finite element method. Application of finite element methods to beams, frames and trusses. Prerequisites: MEC-ENGR 306, MEC-ENGR 324, MEC-ENGR 385, MEC-ENGR 399

3 hrs

MEC-ENGR 491  INTERNSHIP
For International students who must register for 1 credit hour to cover off-campus employment which is approved as related to their degree by their departmental advisor and ISAO

6 hrs

MEC-ENGR 495  VEHICLE DYNAMICS
Analysis and prediction of the dynamic behavior of ground vehicles utilizing computer simulation. Mechanics of various suspension systems, tire-roadway interaction, vehicle aerodynamics, vehicle handling and steering characteristics. Special topics including non-holonomic constraint formulation and stability of motion. Prerequisite: MEC-ENGR 385.

3 hrs

MEC-ENGR 496 WI  MECHANICAL DESIGN SYNTHESIS
Modern design theories and methodologies, with emphasis on the initial stages of the design process. Effect of design choices on the earth and living systems. Principles of embodiment design and life-cycle considerations. A comprehensive group design project is required. The course satisfies the Writing Intensive requirement. Prerequisite: ME 456WI

4 hrs

MEC-ENGR 499  INTERMEDIATE HEAT TRANSFER
Advanced topics in conduction, convection and radiation heat transfer including transient heat transfer, phase change and heat exchangers. Prerequisites: MEC-ENGR 360 and MEC-ENGR 399

3 hrs

Curriculum

Curriculum

College of Arts & Sciences

COLLEGE OF ARTS & SCIENCES

Bachelor of Arts: Art
• Bachelor of Arts: Art History
• Bachelor of Arts: Studio Art
• Bachelor of Arts: Art
• Bachelor of Science: Chemistry
• Bachelor of Arts: Communication Studies
  ◦ Interpersonal and Public Communications Emphasis
  ◦ Journalism and Mass Communication Emphasis
  ◦ Film and Media Arts Emphasis
• Bachelor of Arts: Criminal Justice and Criminology
• Bachelor of Arts: Economics
• Bachelor of Arts: English
• Minor in English
• Bachelor of Arts: French, German, Spanish
• German Studies Minor
• The Minor: French, German, Spanish
• Bachelor of Science/Bachelor of Arts: Environmental Studies
• Environmental Studies Minor
• Bachelor of Science/Bachelor of Arts: Geography
• Bachelor of Science/Bachelor of Arts: Geology
• Geography and Geology Minor
• Bachelor of Arts: History
• Africana Studies Minor
• Family Studies Minor
• Gerontology Minor and Certificate Programs
• Health and Humanities Minor
• Judaic Studies Minor and Concentration
• Bachelor of Arts: Philosophy
• Bachelor of Arts: Political Science
• Bachelor of Arts: Psychology
  ◦ Student Learning Outcomes
  ◦ Advising System
  ◦ Requirements
  ◦ Suggested Plan of Study
• Psychology Minor/Double Major
• Focus Areas for Majors
• Program Minors
• Bachelor of Arts in Theatre
  ◦ Theatre Minor
  ◦ Advising System
• Bachelor of Arts: Urban Studies
**BACHELOR OF ARTS: ART HISTORY**

**Program Description**

Art History Curriculum

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

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

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

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

Seminars are titled generically by major periods or cultural divisions in the history of art (e.g. Baroque art, 19th-century art). When a seminar is offered, a specific topic will be announced and listed in the schedule of classes. These are considered advanced-level courses and are thus assigned 400- and 500-level numbers. Enrollment will be granted by permission of the student's departmental adviser on the basis of previous study in art history or cognate fields. Undergraduate participation in a graduate-level seminar is feasible for selected students through enrollment in a suitably titled, independent-study course.

A small group of independent-study courses, titled generically by major periods or cultural divisions in the history of art, are assigned 400-level numbers. Enrollment in these courses is granted only by the instructor who will supervise the study. (These students are carried as an overload by the instructor except in special cases.) Graduate credit is possible only when a student is admitted to graduate study.

Cluster courses are taught through the program of integrated studies in the humanities. These are interdisciplinary courses offered in conjunction with one or more similar courses in cognate disciplines, but in our case, with an emphasis on the knowledge base appropriate to the history of art.

**Degree Requirements**

1. The three Western surveys: ART 301, 302 and 303.
2. At least three topical/specialized courses (400-level with at least two different faculty).
3. At least two non-Western courses (survey or topical/specialized).
4. At least nine hours of studio art: ART 110, 121 and 131 are recommended.
5. College-mandated capstone course: ART 487.
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 be taken in either French or German.

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

The Combined Major in Art History and History

The department also participates in a combined major in art history and history. For students majoring in either department, this program permits the option of a combined program of integrated studies in both subjects. The combined program is especially intended for the superior student who wishes to explore in-depth the integrated effects of political, religious, economic and artistic developments of selected periods in Western European and American history.

Enrollment in the combined program will be plotted by the coordinators of the program in both departments working individually with each student. A detailed set of requirements is available on request, but the combined major requires 39 hours with 18 specified hours in the primary department; nine specified hours in the secondary department; nine restricted elective hours; and a three-hour capstone course (directed studies) in which a student pursues a senior project related to a problem of study common to history and art history and directed by faculty members in both disciplines.

Minor in Art History

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

**BACHELOR OF ARTS: STUDIO ART**

**Studio Art Curriculum**

The offerings in studio are divided into four general classifications:

- Foundation studio (100-200)
- Intermediate studio (300)
- Advanced studio (400)
- Graduate studio (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 for 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 in one of the departments.

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

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

**Degree Requirements**

1. The foundation studio program or its approved equivalents: ART 112, 121 and 131.
2. A minimum of 24 studio credit hours 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 ART 306, or ART 315, or ART 319 and one 400-level Art History elective course. Total Art History requirements: 12 credit hours. Up to six additional credit hours in Art History can be counted toward the 24 studio credit hours mentioned in requirement number two.

**Grade-point Average Requirements**

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

**Suggested Plan of Study - Studio Art**

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

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

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

**Teacher Certification in Art**

Developed with the School of Education, this curriculum provides students with extensive studio teaching 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 115, ART 121, ART 131, ART 212, ART 224 and ART 234.
2. Four intermediate-level courses (11 hrs.): Ceramics/Clay Sculpture and Fiber/Art/Sculpture (courses available, by agreement, through the Kansas City Art Institute; plus two courses from the following: ART 114, ART 206, ART 305 or ART 309, ART 311 and ART 322.
3. Three upper-level courses (9 hrs.).
4. College-mandated capstone course ART 499W.
5. Art history: three courses from the survey sequence ART 301, ART 302, or ART 303, or ART 316, or ART 319 and one 400-level Art History elective course. Total Art History requirements: 12 credit hours.

Part Two: Professional Education

Certification as an Art teacher (K-12) in either Kansas or Missouri requires that a student complete specific additional requirements in the School of Education. A separate application for teacher education is required. For further information, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

Grade-point Average Requirements

Art education majors must maintain a 2.5 GPA in studio art courses.

Minor in Studio Art Requirements

A minor in studio art may be earned by completing 21 hours of studio art taken in consultation with a faculty adviser.

BACHELOR OF ARTS: ART

Degree Requirements

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

Grade-point Average Requirements

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

Suggested Plan of Study

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

BACHELOR OF SCIENCE: CHEMISTRY

Degree Requirements

The Chemistry Department bachelor of science degree is approved by the American Chemical Society (ACS). There are two types of bachelor of science degrees. Both require a minimum of 43 credit hours in chemistry. An ACS-approved B.S. degree requires taking 2 credit hours of CHEM 382 as a prerequisite, biology (courses numbered 300 or higher), or physics (courses numbered 300 or higher).

4. Physical chemistry (CHEM 431, 431W1 [writing intensive], 432).
5. Chemical literature (CHEM 410).
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 210, 220, 250.
10. One year of engineering physics. PHYSICS 240 and 250.
11. The total credit hours of laboratory time in the required courses and any advanced elective laboratories must be at least 12. No more than 3 hours of CHEM 495 and CHEM 499 may be used in meeting the major course requirements.
12. CHEM 499 cannot be used to meet both laboratory requirements and the 3 hours of advanced work.
13. All majors must receive a C- or better in all chemistry courses with an overall chemistry GPA of 2.0 for graduation.
14. A minimum grade of C- is required for all prerequisite courses (including physics and mathematics courses). In exceptional cases, students may receive written consent by submitting a petition to the Chemistry Undergraduate Curriculum Committee which has to be approved to waive this requirement.
15. Each chemistry major must be advised by the Chemistry Undergraduate Adviser every semester.
16. For BS majors, a minimum of 12 credit hours in the Department of Chemistry at UMKC of which 9 out of the 12 hours must be at the 300/400 level is required for the completion of the degree.

Suggested Plan of Study

Because plans of study are dependent on the students' backgrounds and preparation, each student admitted should develop a plan of study in conjunction with an adviser in the department. General chemistry, organic chemistry, calculus and physics should be completed by the end of the second year. Physical chemistry should be taken in the third year. Students should note that although a fair amount of flexibility is available for setting up a plan of study, the structured nature of prerequisites and corequisites in chemistry, physics, and mathematics necessitates very careful organization of any program.

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

Chemistry
Courses in
Other Disciplines

Freshman

<table>
<thead>
<tr>
<th>Chemistry</th>
<th>Other Disciplines</th>
</tr>
</thead>
<tbody>
<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 212L (1)</td>
<td></td>
</tr>
</tbody>
</table>
Sophomore
- CHEM 321 (3) MATH 250 (4)
- CHEM 321L (1) PHYSCS 240 (5)
- CHEM 322R (3) PHYSCS 250 (5)
- CHEM 322L (1)

Junior
- CHEM 341 (4) 4XX+ in CHEM (3)
- CHEM 431 (3) -or-
- CHEM 432 (3) 3XX+ in BIOL,
- CHEM 442R (3) PHYSCS -or-
- CHEM 437W1 (3) MATH (3)

Senior
- CHEM 410 (1)
- CHEM 45JR (3)
- CHEM 367* (3) -or- LS BIOCHEM 341* (3)
- CHEM 3XX** -or- 4XX** (3)
- CHEM 382* (2)
- CHEM 499** (2)

Total Chemistry Credit Hours: 43

*B-required for ACS-approved degree.
**For non-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).
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 321 + 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. All majors must receive a C- or better in all chemistry courses with an overall chemistry GPA of 2.0 for graduation.
9. A minimum grade of C- is required for all prerequisite courses (including physics and mathematics courses). In exceptional cases, students may receive written consent of the instructor and the Chemistry Undergraduate Adviser to waive this requirement.
10. Each chemistry major must be advised by the Chemistry Undergraduate Adviser every semester.
11. For BA majors, a minimum of 12 credit hours in the Department of Chemistry at UMKC of which 9 out of the 12 hours must be at the 300/400 level is required for the completion of the degree.

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:

B.A. Degree

Chemistry

Other Disciplines

CHEM 211L (4) MATH 110 (3)
CHEM 211L (1) PHYSCS 210 (4)
CHEM 212R (4) PHYSCS 220 (4)
CHEM 212LR (1)
CHEM 341WI (4)

CHEM 321 (3) and
CHEM 321L (1) and
CHEM 322R (3) and
CHEM 322L (1)

-other-

CHEM 320 (4) and
CHEM 320L (1)

other CHEM (3)
other CHEM (3)
other CHEM (1 or more)
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 emphasis, students are required to satisfactorily complete the department's core courses. Students must maintain a 2.0 GPA in their major field. A grade of "D" in a course within the major will not be accepted for credit in the program. With prior permission, three hours of elective credit from another department may be accepted as Communication Studies elective credit. At least 18 of 33 credit hours must be at the 300- or 400-level. Transfer students must complete a minimum of 15 credit hours within the department.

Required Core Courses: (6 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 110</td>
<td>Fundamentals of Effective Speaking and Listening</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 483</td>
<td>Seminar in Communication Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

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

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

INTERPERSONAL AND PUBLIC COMMUNICATION EMPHASIS

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

Interpersonal Communication: (3 Hours) Hours

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

Public Communication: (3 Hours)

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

Interpersonal and Public Electives: (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 213</td>
<td>Argumentation and Critical Thought</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 312</td>
<td>Advanced Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 317</td>
<td>Persuasion</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 341/WI</td>
<td>Rhetorical Theory and Criticism</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 343</td>
<td>Group Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 344/WI</td>
<td>Communication in Organizational Settings</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 377/WI</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 378</td>
<td>Computer-Mediated Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 400</td>
<td>Special Studies</td>
<td>1-3</td>
</tr>
<tr>
<td>COMM-ST 431</td>
<td>Colloquium in Interpersonal Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 444/WI</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 446</td>
<td>Principles of Advertising</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 448</td>
<td>Principles of Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 484</td>
<td>Communication Studies Activities</td>
<td>1-4</td>
</tr>
</tbody>
</table>

JOURNALISM AND MASS COMMUNICATION EMPHASIS

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

Required Courses: (6 Hours) Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 220</td>
<td>Modern Communications Media</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 303WI</td>
<td>Introduction to Journalism</td>
<td>3</td>
</tr>
</tbody>
</table>

Journalism and Mass Communication Electives: (21 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 265</td>
<td>Media Photoimaging</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 311</td>
<td>Radio &amp; Television Performance</td>
<td>3</td>
</tr>
<tr>
<td>COMM-ST 314WI</td>
<td>Reporting</td>
<td>3</td>
</tr>
</tbody>
</table>
COMM-ST 320  Mass Media, Culture and Society 3
COMM-ST 341/WI Rhetorical Theory and Criticism 3
COMM-ST 351WI Fundamentals of Writing for the Media 3
COMM-ST 361  Broadcast Management 3
COMM-ST 363  Radio Production I 3
COMM-ST 380  Contemporary Issues in the Mass Media 3
COMM-ST 384  Documentary Film 3
COMM-ST 400  Special Studies 1-3
COMM-ST 402CD American Social Film: Silver Screen & American Dream 3
COMM-ST 432  Press, Politics and Public Policy 3
COMM-ST 446  Principles of Advertising 3
COMM-ST 448  Principles of Public Relations 3
COMM-ST 456  Electronic Journalism 3
COMM-ST 462  Public Broadcasting 3
COMM-ST 466  Electronic Journalism Performance 3
COMM-ST 478  Media Law 3
COMM-ST 484  Communication Studies Activities 1-4

**Film and Media Arts Emphasis**

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

<table>
<thead>
<tr>
<th>Required Courses: (3 Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 210 Introduction to Film Studies</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Film and Media Arts Electives: (24 Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM-ST 220 Modern Communications Media</td>
</tr>
<tr>
<td>COMM-ST 230 Introduction to Media Production</td>
</tr>
<tr>
<td>COMM-ST 240 Mass Media, Culture and Society</td>
</tr>
<tr>
<td>COMM-ST 250 Film Theory and Criticism</td>
</tr>
<tr>
<td>COMM-ST 260 Rhetorical Theory &amp; Criticism</td>
</tr>
<tr>
<td>COMM-ST 270 Fundamentals of Writing for the Media</td>
</tr>
<tr>
<td>COMM-ST 354 Introduction to Screenwriting</td>
</tr>
<tr>
<td>COMM-ST 363 Radio Production I</td>
</tr>
<tr>
<td>COMM-ST 373 Intermediate Media Production</td>
</tr>
<tr>
<td>COMM-ST 381 History of the Film Industry</td>
</tr>
<tr>
<td>COMM-ST 384 Contemporary Issues in the Mass Media</td>
</tr>
<tr>
<td>COMM-ST 385 Documentary Film</td>
</tr>
<tr>
<td>COMM-ST 386 Documentary Production</td>
</tr>
<tr>
<td>COMM-ST 387 The World of Alfred Hitchcock</td>
</tr>
<tr>
<td>COMM-ST 391 Great Directors of Foreign Film</td>
</tr>
<tr>
<td>COMM-ST 392 History of the Hollywood Musical</td>
</tr>
<tr>
<td>COMM-ST 393 The World of &quot;film Noir&quot;</td>
</tr>
<tr>
<td>COMM-ST 394 Special Studies</td>
</tr>
<tr>
<td>COMM-ST 401 American Social Film: Silver Screen &amp; the American Dream</td>
</tr>
<tr>
<td>COMM-ST 402CD Radical Changes Since 1945</td>
</tr>
<tr>
<td>COMM-ST 403 Wide Screenwriting</td>
</tr>
<tr>
<td>COMM-ST 404 Producing and Distributing Media</td>
</tr>
<tr>
<td>COMM-ST 405 Directing</td>
</tr>
<tr>
<td>COMM-ST 410 Advanced Media Production</td>
</tr>
<tr>
<td>COMM-ST 420 Media Law</td>
</tr>
<tr>
<td>COMM-ST 430 Communication Studies Activities</td>
</tr>
<tr>
<td>COMM-ST 443 Special Problems in Communication Studies</td>
</tr>
</tbody>
</table>

**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.

**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 Mathew Forstater, (816) 235-5862, for undergraduate advising.

Program of Study

The department offers a bachelor of arts in economics.

Honor Society
The Zeta chapter of the Omicron Delta Epsilon International Honor Society in Economics is on campus. Information on this organization can be obtained from Ben Young. The society is open to all undergraduate students with at least 12 hours of economics and a 3.0 GPA in economics and related courses. Graduate students in economics with a 3.0 GPA also may join.

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

The Bachelor of Arts in Economics
This program requires a minimum of 30 hours and a maximum of 45 hours of courses in the department. A minimum 2.0 GPA in the major is required for graduation.

Related courses in anthropology, English, geography, philosophy, history, political science, psychology, sociology, accounting and computer programming are recommended to satisfy the College of Arts and Sciences requirements for graduation. In addition, MATH 210 Calculus I is recommended for the student's program of study.

The following courses are required:
ECON 201 Introduction to Economics I
ECON 202 Introduction to Economics II
ECON 301 Macroeconomic Analysis
ECON 302 Microeconomic Analysis
ECON 406WI History of Economic Thought
ECON 425 Intermediate Economic Statistics
ECON 451 Institutional Economic Theory
ECON 499WI Capstone Colloquium

MATH 110 College Algebra and MATH 235 Elementary Statistics or their equivalents are prerequisites for ECON 425.
ECON 425 is recommended for students who plan to do graduate work in economics.
Six hours of elective economics courses are required.

Undergraduate Minor in Economics
The minor in economics is open to all students and consists of a minimum of 18 hours (six courses) in economics.

The courses are
ECON 201 Introduction to Economics I
ECON 202 Introduction to Economics II
ECON 301 Macroeconomic Analysis
ECON 302 Microeconomic Analysis
ECON 3XX or 4XX (6)
Six hours in 300- to 400-level courses must be approved by the economics undergraduate adviser.

Teacher Certification in Social Studies
Certification as a middle school (grades 5-9) or secondary (grades 9-12) social studies teacher in either Kansas or Missouri requires that a student complete specific requirements in History, Political Science, Economics, Geography, Behavioral Sciences and the School of Education. A separate application for teacher education is required. For further information about the program, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

PACE Degree in Liberal Arts
The department offers five PACE blocks leading to concentrations in human resources or commercial economics for working adults in a weeknight/weekend format. These blocks are:

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(a). To receive a B.A. in English, students must complete the following 33-hour program(b). At least 18 of the 33 required credit hours listed below must be taken within the English department at UMKC:

All of the following (15 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 311</td>
<td>American Literature I 3</td>
</tr>
<tr>
<td>ENGL 317</td>
<td>Introduction to British Literature I 3</td>
</tr>
<tr>
<td>ENGL 321</td>
<td>American Literature II 3</td>
</tr>
<tr>
<td>ENGL 327</td>
<td>Introduction to British Literature II 3</td>
</tr>
</tbody>
</table>

One of the following (3 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 310</td>
<td>Introduction to Linguistics/ Language Science 3</td>
</tr>
<tr>
<td>ENGL 320</td>
<td>Structure of English 3</td>
</tr>
<tr>
<td>ENGL 330</td>
<td>History of the English Language 3</td>
</tr>
<tr>
<td>ENGL 341</td>
<td>Women and Rhetoric 3</td>
</tr>
<tr>
<td>ENGL 441</td>
<td>History and Principles of Rhetoric 3</td>
</tr>
<tr>
<td>ENGL 470</td>
<td>Introduction to Descriptive Linguistics 3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 305</td>
<td>The 18th Century Novel 3</td>
</tr>
<tr>
<td>ENGL 355</td>
<td>The Novel Before 1900 3</td>
</tr>
<tr>
<td>ENGL 358</td>
<td>Studies in Poetry 3</td>
</tr>
<tr>
<td>ENGL 378</td>
<td>Asian American Literature 3</td>
</tr>
<tr>
<td>ENGL 400CA</td>
<td>Cluster Course: Images of the Human Body in Renaissance Ages 3</td>
</tr>
</tbody>
</table>

Additional courses (6 credits):

Two additional 300 or 400 level literature courses in English(c) 6

Capstone experience - One of the following (3 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 499</td>
<td>Senior Tutorial(d) 3</td>
</tr>
</tbody>
</table>

Any 400 level English course in literature or linguistics that is cross-listed with a graduate level course in English. 3

(a) Students contemplating graduate work in English are urged to take at least one course from each of the major periods of English and American literature.
(b) English courses in which students receive a grade below C- will not count toward fulfilling this requirement.
(c) No more than one course in creative writing (312, 315, 339, 429B, 432, 435, 436, 437, 438) and no courses in journalism (313WI, 401WI, 402) or expository writing (301WI, 304WI, 305WI, 307WI, 403WI, 404WI) may be counted toward the basic 33-hour requirement for the regular English major.
(d) Requires approval of principal undergraduate adviser.

Teacher Certification in English Certification as a middle school (grades 5-9) or secondary (grades 9-12) English teacher in either Kansas or Missouri requires that a student complete specific requirements in English and the School of Education. A separate application for teacher education is required. For further information about the program, consult the School of Education section of this catalog or contact the Education Student Services Office at (816) 235-2234.

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(a). At least 27 of the 33 required credit hours listed below must be taken within the English department at UMKC:

The following course (3 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 321</td>
<td>Shakespeare 3</td>
</tr>
</tbody>
</table>

One of the following (3 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 212</td>
<td>Introduction to Drama 3</td>
</tr>
<tr>
<td>ENGL 214</td>
<td>Introduction to Fiction 3</td>
</tr>
<tr>
<td>ENGL 215</td>
<td>Introduction to Poetry 3</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>ENGL 311</td>
<td>American Literature I/II</td>
</tr>
<tr>
<td>ENGL 312</td>
<td>Creative Writing I Fiction</td>
</tr>
<tr>
<td>ENGL 313</td>
<td>Introduction to Linguistics/Language Science</td>
</tr>
<tr>
<td>ENGL 314</td>
<td>Structure of English</td>
</tr>
<tr>
<td>ENGL 315</td>
<td>History of the English Language</td>
</tr>
<tr>
<td>ENGL 316</td>
<td>Women and Rhetoric</td>
</tr>
<tr>
<td>ENGL 317</td>
<td>History and Principles of Rhetoric</td>
</tr>
<tr>
<td>ENGL 318</td>
<td>Introduction to Descriptive Linguistics</td>
</tr>
<tr>
<td>ENGL 319</td>
<td>Bible as Literature</td>
</tr>
<tr>
<td>ENGL 320</td>
<td>American Social Film: Silver Screen &amp; American Dream</td>
</tr>
<tr>
<td>ENGL 321</td>
<td>Radical Changes Since 1945</td>
</tr>
<tr>
<td>ENGL 322</td>
<td>Clo &amp; The Other Muses: Hist. &amp; Culture 5th-Century Athens</td>
</tr>
<tr>
<td>ENGL 323</td>
<td>Ancient World/Cinema</td>
</tr>
<tr>
<td>ENGL 324</td>
<td>Myth and Literature</td>
</tr>
<tr>
<td>ENGL 325</td>
<td>Arthurian Legends</td>
</tr>
<tr>
<td>ENGL 326</td>
<td>Modern and Contemporary Irish Literature</td>
</tr>
<tr>
<td>ENGL 327</td>
<td>African American Literature I</td>
</tr>
<tr>
<td>ENGL 328</td>
<td>African American Novel</td>
</tr>
<tr>
<td>ENGL 329</td>
<td>African American Literature II</td>
</tr>
<tr>
<td>ENGL 330</td>
<td>Classical Literature in Translation</td>
</tr>
<tr>
<td>ENGL 331</td>
<td>Women and Literary Culture: Genre Focus</td>
</tr>
<tr>
<td>ENGL 332</td>
<td>Historical Focus</td>
</tr>
<tr>
<td>ENGL 333</td>
<td>The 18th Century Novel</td>
</tr>
<tr>
<td>ENGL 334</td>
<td>The Novel Before 1900</td>
</tr>
<tr>
<td>ENGL 335</td>
<td>Studies in Poetry</td>
</tr>
<tr>
<td>ENGL 336</td>
<td>The Modern Novel</td>
</tr>
<tr>
<td>ENGL 337</td>
<td>Contemporary Novel</td>
</tr>
<tr>
<td>ENGL 338</td>
<td>Colonial Literature</td>
</tr>
<tr>
<td>ENGL 339</td>
<td>Asian American Literature</td>
</tr>
<tr>
<td>ENGL 340</td>
<td>Shakespeare Comedies and Histories</td>
</tr>
<tr>
<td>ENGL 341</td>
<td>Early English Drama</td>
</tr>
<tr>
<td>ENGL 342</td>
<td>Modern Drama, 1880-1945</td>
</tr>
<tr>
<td>ENGL 343</td>
<td>Studies in the Novel 1740 - 1900</td>
</tr>
<tr>
<td>ENGL 344</td>
<td>Shakespeare Tragedies and Romances</td>
</tr>
<tr>
<td>ENGL 345</td>
<td>Restoration and 18th-Century British Literature</td>
</tr>
<tr>
<td>ENGL 346</td>
<td>The Romantic Period</td>
</tr>
<tr>
<td>ENGL 347</td>
<td>Modern Poetry</td>
</tr>
<tr>
<td>ENGL 348</td>
<td>19th-Century American Literature</td>
</tr>
<tr>
<td>ENGL 349</td>
<td>Medieval Literature</td>
</tr>
<tr>
<td>ENGL 350</td>
<td>Renaissance Literature II</td>
</tr>
<tr>
<td>ENGL 351</td>
<td>The Victorian Period</td>
</tr>
<tr>
<td>ENGL 352</td>
<td>Contemporary Poetry</td>
</tr>
<tr>
<td>ENGL 353</td>
<td>Late 18th-Century British Literature</td>
</tr>
<tr>
<td>ENGL 354</td>
<td>Histories Of Writing, Reading, and Publishing</td>
</tr>
<tr>
<td>ENGL 355</td>
<td>Postcolonial Literature</td>
</tr>
<tr>
<td>ENGL 356</td>
<td>American Culture</td>
</tr>
<tr>
<td>ENGL 357</td>
<td>Girls And Print Culture</td>
</tr>
<tr>
<td>ENGL 358</td>
<td>Shakespeare Comedies and Histories</td>
</tr>
<tr>
<td>ENGL 359</td>
<td>Early English Drama</td>
</tr>
<tr>
<td>ENGL 360</td>
<td>Modern Drama, 1880-1945</td>
</tr>
<tr>
<td>ENGL 361</td>
<td>Studies in the Novel 1740 - 1900</td>
</tr>
<tr>
<td>ENGL 362</td>
<td>Shakespeare Tragedies and Romances</td>
</tr>
<tr>
<td>ENGL 363</td>
<td>Restoration and 18th-Century Drama</td>
</tr>
<tr>
<td>ENGL 364</td>
<td>The Modern Novel</td>
</tr>
<tr>
<td>ENGL 365</td>
<td>Studies In The Modern Novel</td>
</tr>
<tr>
<td>ENGL 366</td>
<td>Creative Writing I Fiction/Advanced Creative Writing Prose</td>
</tr>
<tr>
<td>ENGL 367</td>
<td>Creative Writing I Fiction/Prose Forms</td>
</tr>
<tr>
<td>ENGL 368</td>
<td>Creative Writing Poetry/ Poetic Forms</td>
</tr>
<tr>
<td>ENGL 369</td>
<td>Creative Writing Poetry/ Poetic Forms</td>
</tr>
</tbody>
</table>
ENGL 315  Creative Writing Poetry                  3
ENGL 432  Advanced Creative Writing Prose          3
ENGL 435  Advanced Creative Writing Poetry         3
ENGL 436  Poetic Forms                             3
ENGL 437  Prose Forms                              3
ENGL 438  The New Letters Writing Conference       3
ENGL 448  External Internship                   1-3
ENGL 449A Publication Practicum                  1-3
The following may also qualify as additional writing courses(b):
THEAT 437  Playwriting I                          3
THEAT 438  Playwriting II                         3
ENGL 300WI Introduction to Journalism             3
ENGL 317WI Reporting                               3
ENGL 320WI Literary Nonfiction                    3
ENGL 339  Creative Writing: Screenwriting         3
ENGL 400WI Feature Writing                        3
ENGL 432B Advanced Creative Writing:
Screenwriting                                      3
Capstone experience - One of the following (3 credits):
ENGL 432  Advanced Creative Writing Prose          3
ENGL 435  Advanced Creative Writing Poetry         3
ENGL 436  Poetic Forms                             3
ENGL 437  Prose Forms                              3
ENGL 499(c) Senior Tutorial                          3

(a) English courses in which students receive a grade below C- will not count toward fulfilling this requirement.
(b) Requires approval of the principal undergraduate adviser or the coordinator of creative writing.
(c) Student must complete a poetry or prose sequence with distinguished work before applying to the instructor for permission to take this course. Permission of the principal undergraduate adviser or the coordinator of creative writing is also required.

MINORS IN ENGLISH

English Language and Literature Minor (21 credit hours)
The minor in language and literature is designed for students desiring a general background in English. Students must take the following courses(a):

<table>
<thead>
<tr>
<th>All of the following (18 credits):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
</tr>
<tr>
<td>ENGL 311 American Literature I     3</td>
</tr>
<tr>
<td>ENGL 317 Introduction to British Literature I 3</td>
</tr>
<tr>
<td>ENGL 320 Shakespeare              3</td>
</tr>
<tr>
<td>ENGL 321 Structure of English     3</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>ENGL 330 History of the English Language 3</td>
</tr>
<tr>
<td>Two additional 300 or 400 level literature courses in English(b) 6</td>
</tr>
<tr>
<td>One of the following (3 credits):</td>
</tr>
<tr>
<td>ENGL 211 Introduction to Drama     3</td>
</tr>
<tr>
<td>ENGL 214 Introduction to Fiction   3</td>
</tr>
<tr>
<td>ENGL 215 Introduction to Poetry    3</td>
</tr>
<tr>
<td>ENGL 321 American Literature II    3</td>
</tr>
<tr>
<td>ENGL 337 Introduction to British Literature II 3</td>
</tr>
</tbody>
</table>

(a) English courses in which students receive a grade below C- will not count toward fulfilling these requirements.
(b) One course must cover a literary period prior to 1900 (excluding ENGL 311 and 321)

Creative Writing Minor (21 credit hours)
This minor is designed for students who are eager to give focused attention to developing their talents in poetry or fiction writing. Students must complete the following requirements(a):

<table>
<thead>
<tr>
<th>One genre course in creative writing (3 credits):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
</tr>
<tr>
<td>ENGL 214 Introduction to Fiction   3</td>
</tr>
<tr>
<td>ENGL 215 Introduction to Poetry    3</td>
</tr>
<tr>
<td>Students are expected to elect the course that will prepare for a concentration in poetry or fiction.</td>
</tr>
<tr>
<td>One writing sequence in poetry or fiction (6 credits):</td>
</tr>
<tr>
<td>ENGL 312/452 Creative Writing I Fiction/ Advanced Creative Writing Prose 6</td>
</tr>
<tr>
<td>ENGL 312/457 Creative Writing I Fiction/ Prose Forms 6</td>
</tr>
<tr>
<td>ENGL 319/435 Creative Writing Poetry/ Advanced Creative Writing Poetry 6</td>
</tr>
<tr>
<td>ENGL 319/436 Creative Writing Poetry/ Poetic Forms 6</td>
</tr>
<tr>
<td>Two additional courses in creative writing, in addition to those taken for the writing sequence (6 credits):</td>
</tr>
<tr>
<td>ENGL 339 Creative Writing: Screenwriting 3</td>
</tr>
<tr>
<td>THEAT 437 Playwriting I 3</td>
</tr>
<tr>
<td>THEAT 438 Playwriting II 3</td>
</tr>
<tr>
<td>ENGL 312 Creative Writing I Fiction 3</td>
</tr>
<tr>
<td>ENGL 315 Creative Writing Poetry 3</td>
</tr>
<tr>
<td>ENGL 316WI Literary Nonfiction 3</td>
</tr>
<tr>
<td>ENGL 432 Advanced Creative Writing Prose 3</td>
</tr>
<tr>
<td>ENGL 435 Advanced Creative Writing Poetry 3</td>
</tr>
<tr>
<td>ENGL 436 Poetic Forms 3</td>
</tr>
<tr>
<td>ENGL 437 Prose Forms 3</td>
</tr>
</tbody>
</table>
ENGL 438 The New Letters Writing Conference 3
ENGL 448 External Internship 3
ENGL 448B Advanced Creative Writing: Screenwriting 3
ENGL 499 Senior Tutorial(b) 3

Some courses in Communication Studies, Theatre or Foreign Languages may also be applicable with the permission of the principal undergraduate adviser or the coordinator of creative writing.

Two courses focused on literature (6 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 311</td>
<td>American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 317</td>
<td>Introduction to British Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 321</td>
<td>American Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 327</td>
<td>Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 328</td>
<td>Arthurian Legends</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 329</td>
<td>Modern and Contemporary Irish Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 331</td>
<td>African American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 332</td>
<td>African American Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 333</td>
<td>Contemporary American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 342</td>
<td>Women And Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 344</td>
<td>Women &amp; Literary Culture: Genre Focus</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 345</td>
<td>Women &amp; Literary Culture: Historical Focus</td>
<td>3</td>
</tr>
</tbody>
</table>

Writing Minor (18 credit hours)
The writing minor requires that students take the following 18-hour program(a):

(a) English courses in which students receive a grade below C- will not count toward fulfilling these requirements.
(b) Students must complete the writing sequence in poetry or prose before applying to the instructor for permission to take ENGL 499. Permission of the principal undergraduate adviser or the coordinator of creative writing is also required.

Students must complete six of the following courses. No more than two courses on poetry and/or fiction may be counted toward the writing minor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 301</td>
<td>Writing and the Academy</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 303</td>
<td>Introduction to Journalism</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 304</td>
<td>Writing and Technology</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 305</td>
<td>Theory and Practice of Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 311</td>
<td>Creative Writing I Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 313</td>
<td>Reporting</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 315</td>
<td>Creative Writing Poetry</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 316</td>
<td>Literary Nonfiction</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 339</td>
<td>Creative Writing: Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 342</td>
<td>Women And Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 401</td>
<td>Feature Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 307</td>
<td>Writing in Cultural Contexts</td>
<td>3</td>
</tr>
</tbody>
</table>

THEAT 437 Playwriting I 3
THEAT 438 Playwriting II 3
ENGL 301WI Writing and the Academy 3
ENGL 303WI Introduction to Journalism 3
ENGL 304WI Writing and Technology 3
ENGL 305WI Theory and Practice of Composition 3
ENGL 311WI Creative Writing I Fiction 3
ENGL 313WI Reporting 3
ENGL 315WI Creative Writing Poetry 3
ENGL 316WI Literary Nonfiction 3
ENGL 339WI Creative Writing: Screenwriting 3
ENGL 342WI Women And Rhetoric 3
ENGL 401WI Feature Writing 3
ENGL 307WI Writing in Cultural Contexts 3
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, levvy@umkc.edu

German: K. Scott Baker
(816) 235-2823, bakkers@umkc.edu

Spanish: Rebecca Lee
(816) 235-2827, berebe@umkc.edu

General Information

Initial Advising and Placement

A language placement exam is strongly recommended for all students with previous foreign language experience in French, German or Spanish. The placement exam or the recommendation of a foreign language adviser will best determine a student's level, contributing to his or her success. Contact the department office for more information.

Full-time, degree-seeking students whose education through eighth grade, or the equivalent, has been in a language other than English shall be exempt from the foreign language requirement for the general education requirements. They will not receive 110, 120 or 211 credit for that language.

Consultation with an adviser is recommended for students who intend to major or minor in foreign languages.

Transfer Credit

Beginning-level courses (110, 120) are not applicable toward requirements for the major. College credit for them may be earned by examination.

CLEP credit is available for the first 10 hours of French, German or Spanish. Contact Testing Services to arrange for the exam. A passing score is necessary to receive credit. (No more than 30 of a student’s total hours may be earned by examination.)

Departmental testing, “Credit by Examination,” also is available. Students should first speak to the appropriate undergraduate adviser. Generally, arrangements are made with an instructor to take the final examination with the appropriate class. Forms are available at Registration. The signatures of the registrar, instructor, dean and cashier must be obtained, in that order. The fee must be paid and the instructor must receive the signed, completed form before the student may take the examination. A minimum grade of C is necessary to receive credit.

Degree Requirements

Students may choose to major in French, German or Spanish or to pursue a double major by satisfying requirements in each of two languages and literatures, or in a language plus another discipline.

The department recommends study of a second foreign language and relevant work in other disciplines such as English, history, art history, etc.

In consultation with the adviser, a course of study will be devised listing required courses, credits received and courses that still need to be taken to satisfy requirements for the degree. It will be signed by the student and the adviser. Majors must consult with their departmental advisers before registration and need to obtain approval of their course programs each semester. They also must seek their adviser’s consent whenever a change in the agreed course of study is necessary.

The following departmental requirements must be met:

1. Students must complete a minimum of 30 credit hours beyond 110 and 120 in the same language and literature. Normally, at least 18 of the 30 hours required for the major must be taken in this department. For more details concerning 300- and 400-level course requirements for degrees in French, German and Spanish, see the following.
2. Special arrangements for study-abroad credit can be made with the chair on a case-by-case basis.
3. A 2.0 grade-point average in the major is required for graduation.
4. Composition and conversation courses through at least 415 are required and 425 is highly recommended. Prospective teachers must take 425.
5. Native speakers majoring in their own languages will complete a minimum of 12 credit hours in courses numbered 300 and above, but normally not including 315 or 325. A native speaker is defined as a person who speaks the target language fluently and who has completed formal schooling through the secondary school level, or equivalent, in the target language.
6. French majors must complete a total of 15 credit hours of 300- and 400-level literature and civilization courses. Of these, nine credit hours must be at the 400 level and must include the Senior Seminar (Capstone Course), French 499.
7. German majors must complete at least 15 hours of 300- and 400-level literature and culture courses, including the Senior Seminar (Capstone Course), German 499.
8. Spanish majors must complete at least 15 hours of literature and civilization courses, of which at least six hours must be at the 400 level and must include the Senior Seminar (Capstone Course), Spanish 499.
9. French 435 and German 304 and 340 do not count toward a major.
10. Certain cluster courses may be counted toward the language major, to be determined through consultation with the course instructor and the foreign language chair.

German Studies Minor

The German Studies minor consists of 18 hours selected from the list of approved courses, of which a minimum of 6 credits must be in German Language and a minimum of 9 credits must be upper-division coursework. Up to 6 credits may come from classes listed in the Associated Course List, but these courses apply only if the student’s project focuses on a German topic. A capstone project is also required. A maximum of six hours may apply to both a German minor and a German Studies minor.

Approved Course Offerings:

Foreign Languages and Literatures:

German Language

- German 110, 120: Elementary German I & II
- German 211, 221: Second-Year German I & II
- German 315, 325: Intermediate Conversation and Composition I & II
- German 415, 425: Advanced Conversation and Composition I & II
German Literature

- German 301, Introduction to Literary Studies
- German 307, From the Middle Ages to the Baroque
- German 308, From the Enlightenment through the 19th Century
- German 310, Classical Period of German Literature
- German 340, Society and Literature in 20th-Century Germany (in English)
- German 400, Rainer Maria Rilke
- German 401, Bertolt Brecht
- German 411, Romanticism
- German 412, The German Novel
- German 421, 19th-Century Drama
- German 422, Contemporary Drama
- German 426, 20th-Century German Literature

German Culture and Film

- German 304, Aspects of Contemporary German Culture (in English)
- German 305, Current Events in Germany
- German 306, Aspects of Contemporary German Culture
- German 341, Survey of German Film 1920-1980 (in English)
- German 342, Contemporary German Film 1980- (in English)
- German 345, The Antifascist Tradition in Germany
- German 453, Women's Voices in Germany and Austria

Interdisciplinary Cluster Courses:

- Foreign Language 400CM/History 400CM, Nazi-Occupied Europe and The Holocaust

History:

- History 436R/536 Modern German History, 1890-1990
- History 437A, Imperial Germanies, 1848-1918
- History 437B, First German Republics, 1917-1935
- History 437C, The Third Reich, 1930-1950
- History 437D, Cold War Germanies, 1941-1991

Philosophy:

- Philosophy 436, Kant

Associated Course Offerings:

Art History:

- Art History 301, 302, 303: Survey of Western Art
- Art History 415WI, Romanticism
- Art History 416WI, Later 19th Century Painting and Sculpture
- Art History 424, Early 20th Century European Painting and Sculpture
- Art History 445, Northern European Art: 15th and 16th Centuries
- Art History 449, Art and Architecture in the Age of Enlightenment

Interdisciplinary Cluster Courses:

- History 400 CF, Courts and Culture in the High Middle Ages
- History 400 CI, Culture, Kultur, Civilization: Identity Formation in the Middle Class

Musicology (Conservatory):

- Conservatory 554, Medieval Music
The MINOR: FRENCH, GERMAN, SPANISH

The growing need for experts in the international aspects of academic and professional fields has led to a renewed interest in the foreign language minor as a complement to a student's training in a major field. In increasing numbers, students completing baccalaureate degrees in the Henry W. Bloch School of Business and Public Administration, in the Conservatory of Music and in other departments of The College of Arts and Sciences have selected a course of study that includes a minor in a foreign language. Majors in all fields are urged to discuss this possibility with their advisers.

Requirements for Program Minor

An academic minor in a given language requires a minimum of 18 hours consisting of six hours of second-year courses or above plus 12 hours of courses at the 300 and 400 levels. French 435 and German 304 do not count toward a minor.

BACHELOR OF SCIENCE/BACHELOR OF ARTS: ENVIRONMENTAL STUDIES

Degree Requirements

B.A. Environmental Studies:

B.A. Program Coordinator:
Daniel P. Hopkins, (816) 235-1334

Core Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 110</td>
<td>Understanding the Earth</td>
<td>5</td>
</tr>
<tr>
<td>ENVS 110L</td>
<td>w/Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 160</td>
<td>Chemistry, Society ...</td>
<td>3</td>
</tr>
<tr>
<td>ENVSC 210</td>
<td>Environmental Issues</td>
<td>3</td>
</tr>
<tr>
<td>ENVST 499W</td>
<td>Environmental Studies Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose three courses, each from a different department:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 420</td>
<td>Environment, Resources and Economic Growth</td>
<td>3</td>
</tr>
<tr>
<td>ENS 223</td>
<td>Introduction to Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENS 223</td>
<td>Cartography</td>
<td>4</td>
</tr>
<tr>
<td>ENVS 223</td>
<td>Global Environmental Change</td>
<td>3</td>
</tr>
<tr>
<td>HIST 170</td>
<td>Nature and Culture: American Environmental History</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 310</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 343</td>
<td>Environmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>UP 432</td>
<td>Urban Environmental Planning and Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose four courses from the following:

At least one course must be taken from each of the three divisions of learning: Natural Sciences (NS), Social Sciences (SS), and Ethics, Jurisprudence, and Culture (E). Core courses cannot also be counted for credit in this section.

Core Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 108</td>
<td>General Biology I (NS)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 108L</td>
<td>w/Lab (NS)</td>
<td></td>
</tr>
<tr>
<td>BIOL 109</td>
<td>General Biology II (NS)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 109L</td>
<td>w/Lab (NS)</td>
<td></td>
</tr>
<tr>
<td>BIOC 215</td>
<td>Ecology (NS)</td>
<td>3</td>
</tr>
<tr>
<td>CE 407</td>
<td>Water Resource Engineering (NS)</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 250</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 250L</td>
<td>w/Lab (NS)</td>
<td></td>
</tr>
<tr>
<td>CHEM 250L</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 250L</td>
<td>w/Lab (NS)</td>
<td></td>
</tr>
<tr>
<td>ENVS 310</td>
<td>Field Experience in Waste Management (NS)</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 496</td>
<td>Environmental Internship (NS)</td>
<td>1-4</td>
</tr>
<tr>
<td>GEOL 105</td>
<td>Intro. to GIS (NS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 106</td>
<td>Introduction to Weather and Climate (NS)</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 106</td>
<td>Principles of Geomorphology (NS)</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 107</td>
<td>Cartography (NS)</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 108</td>
<td>Principles of Biogeography (NS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 109</td>
<td>Advanced GIS (NS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 110</td>
<td>Environmental Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 111</td>
<td>Digital Image Analysis (NS)</td>
<td></td>
</tr>
<tr>
<td>GEOL 204</td>
<td>Biogeography &amp; Landscape Ecology (NS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 206</td>
<td>Global Environmental Change (NS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 209</td>
<td>Quaternary Environments (NS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 210</td>
<td>General Geology (NS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 211</td>
<td>Field Methods (Campus) (NS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 212</td>
<td>Field Methods (Off-campus) (NS)</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 213</td>
<td>Environmental Geology (NS)</td>
<td>3</td>
</tr>
</tbody>
</table>
Core Requirements:

Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 110R</td>
<td>Understanding the Earth</td>
<td>5</td>
</tr>
<tr>
<td>ENVS 110L</td>
<td>w/Lab</td>
<td></td>
</tr>
<tr>
<td>ENVS 210</td>
<td>Environmental Issues</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 250</td>
<td>Field Methods (Campus)</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 251</td>
<td>Field Methods (Off-campus)</td>
<td></td>
</tr>
<tr>
<td>ENVST 499WI</td>
<td>Environmental Studies Practicum</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 108</td>
<td>General Biology I</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 108L</td>
<td>w/Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 110</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 110L</td>
<td>w/Lab</td>
<td></td>
</tr>
<tr>
<td>MATH 235</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ENVST 499WI</td>
<td>Environmental Studies</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 220</td>
<td>General Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 302</td>
<td>Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 313</td>
<td>Evolution and the Geologic Record</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 335</td>
<td>Introduction to Waste</td>
<td>3</td>
</tr>
<tr>
<td>ECON 420</td>
<td>Environment, Resources, and Economic Growth</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 309</td>
<td>Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 333</td>
<td>Urban Planning</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 437</td>
<td>Population Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIS 356</td>
<td>Rise of the City U</td>
<td>3</td>
</tr>
<tr>
<td>HIS 356R</td>
<td>History of a Regional Metropolis</td>
<td>3</td>
</tr>
<tr>
<td>POLSC 380</td>
<td>Environmental Justice</td>
<td>3</td>
</tr>
<tr>
<td>POLSC 435</td>
<td>Politics of the Environment</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 403</td>
<td>Environmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>UPD 497</td>
<td>Urban Environmental Policy</td>
<td>3</td>
</tr>
<tr>
<td>UPD 500</td>
<td>Planning Theory &amp; Practice</td>
<td>3</td>
</tr>
<tr>
<td>LAW 8725</td>
<td>Water Law</td>
<td>3</td>
</tr>
<tr>
<td>LAW 8726</td>
<td>Law and the American Indian</td>
<td>3</td>
</tr>
<tr>
<td>LAW 8728</td>
<td>Preservation Law</td>
<td>3</td>
</tr>
<tr>
<td>LAW 8729</td>
<td>Environmental Law</td>
<td>3</td>
</tr>
<tr>
<td>LAW 8730</td>
<td>Environmental Law Seminar</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 334</td>
<td>Philosophy of Science</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 338</td>
<td>Philosophy of Biology</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 370</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>UPD 497</td>
<td>History of Planning</td>
<td>3</td>
</tr>
<tr>
<td>ENVSC 310</td>
<td>Field Experience in Waste Management</td>
<td>3</td>
</tr>
<tr>
<td>ENVSC 446</td>
<td>Environmental Internship</td>
<td>3-4</td>
</tr>
<tr>
<td>GEOL 325</td>
<td>Intro to GIS</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 326</td>
<td>Principles of Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 327</td>
<td>Cartography</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 328</td>
<td>Principles of Biogeography</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 334</td>
<td>Advanced GIS</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 335</td>
<td>Environmental Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 404</td>
<td>Biogeography</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 410</td>
<td>Landscape Ecology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 416</td>
<td>Global Environmental Change</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 417</td>
<td>Quaternary Environments</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 419</td>
<td>General Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 420</td>
<td>Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 421</td>
<td>Evolution and the Geologic Record</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 309</td>
<td>Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 333</td>
<td>Urban Planning</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 335</td>
<td>Population Geography</td>
<td>3</td>
</tr>
</tbody>
</table>
ENVIRONMENTAL STUDIES MINOR

Note: The B.S. degree requires at least 60 credit hours of science and mathematics. In addition to the core courses and other required courses listed above, environmental studies majors seeking a bachelor of science degree and selecting a geosciences emphasis must take a minimum of an additional 12 credit hours in geology or physical geography. A list of approved courses may be found below.
B.A. Program Coordinator:
Daniel P. Hopkins, Geosciences, (816) 235-1334;
Students pursuing the bachelor of arts degree who wish to obtain a minor in environmental studies must take at least 18 credit hours of coursework from the following list, a minimum of nine credit hours at the 300- or 400-level and a minimum of nine credit hours at UMKC. The program of study is to be planned with a program coordinator.

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVSC 110R</td>
<td>3</td>
</tr>
<tr>
<td>ENVSC 110L</td>
<td>2</td>
</tr>
<tr>
<td>ENVSC 111R</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 420</td>
<td>3</td>
</tr>
<tr>
<td>HIST 364R</td>
<td>3</td>
</tr>
<tr>
<td>HIST 365A</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 370</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 403</td>
<td>3</td>
</tr>
<tr>
<td>POLSC 377R</td>
<td>3</td>
</tr>
</tbody>
</table>

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

**Electives**

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

B.S. Program Coordinator:
Caroline Davies, Geosciences, (816) 235-1334;
Students pursuing the bachelor of science degree who wish to obtain a minor in environmental studies must take at least 18 credit hours of coursework from the following list, a minimum of nine credit hours at the 300- or 400-level and a minimum of nine credit hours at UMKC. The program of study is to be planned with a program coordinator.

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVSC 110R</td>
<td>3</td>
</tr>
<tr>
<td>ENVSC 110L</td>
<td>2</td>
</tr>
<tr>
<td>ENVSC 111R</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 160</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 420</td>
<td>3</td>
</tr>
<tr>
<td>HIST 364R</td>
<td>3</td>
</tr>
<tr>
<td>HIST 365A</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 370</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 403</td>
<td>3</td>
</tr>
<tr>
<td>POLSC 377R</td>
<td>3</td>
</tr>
</tbody>
</table>

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

**Electives**

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

**BACHELOR OF SCIENCE/BACHELOR OF ARTS: GEOGRAPHY**

*Bachelor of Arts: Geography*

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVSC 110R</td>
<td>3</td>
</tr>
<tr>
<td>ENVSC 110L</td>
<td>5</td>
</tr>
<tr>
<td>GEOS 201</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 202</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 220</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 221</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 390</td>
<td>3</td>
</tr>
</tbody>
</table>

Any Four Courses (Human and Regional Geography):

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS 210</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 211</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 212</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 213</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 214</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 215</td>
<td>3</td>
</tr>
</tbody>
</table>

*Bachelor of Science: Geography*

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVSC 110R</td>
<td>3</td>
</tr>
<tr>
<td>ENVSC 110L</td>
<td>5</td>
</tr>
<tr>
<td>GEOS 201</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 202</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 220</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 221</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 390</td>
<td>3</td>
</tr>
</tbody>
</table>

Any Four Courses (Human and Regional Geography):

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS 210</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 211</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 212</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 213</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 214</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 215</td>
<td>3</td>
</tr>
</tbody>
</table>

*May not be counted in both required and elective categories.*
South America 3
GEOG 444 Regional Geography of Mexico, Central America & the Caribbean 3
GEOG 492 History and Philosophy Geography 3
GEOG 499 Population Geography 3
GEOG 495 Transportation Geography 3
Regional Courses: One or two 300-level courses 3-6

Any Three Courses (Physical Geography):
GEOG 215 Intro to Weather and Climate 4
GEOG 314 Principles of Geomorphology 4
GEOG 319 Descriptive and Synoptic Meteorology 4
GEOG 336 Principles of Soil Science 3
GEOG 339 Principles of Biogeography 3
GEOG 344 Environmental Remote Sensing & Digital Image Analysis (ES) 3
GEOG 444 Biogeography and Landscape Ecology 3
GEOG 445 Geoarchaeology 3
GEOG 447 Quaternary Environments 3
GEOG 449 Geo-computation for Earth and Environmental Sciences 3
GEOG 458 Satellite Climatology 3

Supporting Requisites (3 Hours):
A fourth semester of a foreign language** 3

*For a B.A. degree, a minimum of 60 hours of physical sciences and mathematics is required. A minimum of 26 hours of courses in the major at the 300-level or above is required for all programs in the Department of Geosciences leading to the B.A. or B.S. degree.
**B.S. students in the Department of Geosciences are not required to take foreign languages.

Bachelor of Science: Geography*

Required Courses:

---

Bachelor of Arts: Geology

Required Courses:

---

BACHELOR OF SCIENCE/BACHELOR OF ARTS: GEOLOGY

Bachelor of Arts: Geology

Required Courses:
**GEOL 251** Field Methods (Off-campus) 3  
**GEOL 252** Mineralogy 4  
**GEOL 253** Evolution and the Geologic Record 4  
**GEOL 254** Earth Structures and Tectonics 4  
**GEOL 355** Geology Field Camp 6  
**GEOL 499WI** Senior Seminar 3  

**Required B.A. Supporting Courses:**  
**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  

**Choose Four of the Following (12-15 credit hours):**  
**GEOG 203** Introduction to GIS 3  
**GEOL 314** Principles of Geomorphology 4  
**GEOL 325** Sedimentology/Stratigraphy 4  
**GEOL 342** Igneous and Metamorphic Petrology 4  
**GEOL 350** Hydrogeology 3  
**GEOG 401** Advanced GIS 3  
**GEOL 411** Geology of Ore Deposits 3  
**GEOL 412** Geology and Hazardous Waste Management 3  
**GEOG 442** Quaternary Environments 3  
**GEOG 444** Geocomputation Methods 3  
**GEOG 444** Introduction to Geochemistry 3  
**GEOL 460** Tectonics 3  
**GEOL 472** Earthquake Geology 3  

* High school biology satisfies this requirement.

**Bachelor of Science: Geology**

**Required Courses:**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 110R Understanding the Earth 5</td>
</tr>
<tr>
<td>ENVS 110L w/Lab 5</td>
</tr>
<tr>
<td><strong>-or-</strong></td>
</tr>
<tr>
<td>GEOL 250 General Geology 5</td>
</tr>
<tr>
<td>GEOL 250L w/Lab 5</td>
</tr>
<tr>
<td><strong>-or-</strong></td>
</tr>
<tr>
<td>GEOL 251 Field Methods (Campus) 3</td>
</tr>
<tr>
<td><strong>-or-</strong></td>
</tr>
<tr>
<td>GEOL 251 Field Methods (Off-campus) 3</td>
</tr>
<tr>
<td>GEOL 252 Mineralogy 4</td>
</tr>
<tr>
<td>GEOL 253 Evolution and the Geologic Record 4</td>
</tr>
<tr>
<td>GEOL 254 Earth Structures and Tectonics 4</td>
</tr>
<tr>
<td>GEOL 355 Geology Field Camp 6</td>
</tr>
<tr>
<td>GEOL 499WI Senior Seminar 3</td>
</tr>
</tbody>
</table>

**Required B.S. Supporting Courses:**  
**BIOL 108** General Biology 5  
**MATH 210** Calculus I 4  
**MATH 235** Elementary Statistics 3  
**-or-**  
**GEOG 444** Geocomputation 3  
**CHEM 211** General Chemistry I 4  
**CHEM 211L** General Chemistry I Lab 1  
**CHEM 212** General Chemistry II 4  
**CHEM 212LR** General Chemistry II Lab 1  
**PHYS 240** General Physics I (or PHYS 220) 5(4)  
**PHYS 250** General Physics II (or PHYS 220) 5(4)  

**Choose Four of the Following (12-15 credit hours):**  
**GEOG 203** Introduction to GIS 3  
**GEOL 314** Principles of Geomorphology 4  
**GEOL 325** Sedimentology/Stratigraphy 4  
**GEOL 342** Igneous and Metamorphic Petrology 4  
**GEOL 350** Hydrogeology 3  
**GEOG 401** Advanced GIS 3  
**GEOL 411** Geology of Ore Deposits 3  
**GEOL 412** Geology and Hazardous Waste Management 3  
**GEOG 442** Quaternary Environments 3  
**GEOG 444** Geocomputation Methods 3  
**GEOG 444** Introduction to Geochemistry 3  
**GEOL 460** Tectonics 3  
**GEOL 472** Earthquake Geology 3  

* High school biology satisfies this requirement.

**GEOGRAPHY AND GEOLOGY MINORS**

Academic minors are offered in geography (18 hours) and in geology (18 hours). At least nine of the hours needed for the minor must be taken at UMKC. The minor programs are sufficiently flexible to enable students with diverse backgrounds to choose relevant coursework from the department’s offerings. The programs are structured to ensure that students gain an appreciation of the breadth of the minor field. The minor should be declared as early as possible, but not later than the beginning of the student’s senior year. Up to eight hours of coursework may simultaneously count in both the major and minor areas, where applicable. This applies to departmental and non-departmental students.

**Undergraduate Minor in Geography**

A minor in geography may be obtained with a minimum of 18 semester hours of coursework in this discipline (at least nine of which must be at the 300- and 400-level). Either ENVS 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.

**GEography and Geology Minors**
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).

**GEOL 220 General Geology** (3 hours with lab) -and- **GEOL 350 Field Methods (Campus)** (3 hours) -or- **GEOL 251 Field Methods (Off-campus)** (3 hours) are required.

Note: **GEOL 298, 417** and **499WI** do not count as credit in a minor program in geology.

**BACHELOR OF ARTS: HISTORY**

**General College Requirements**

The student must fulfill the requirements of the general college program as outlined in Undergraduate Academic Regulations and Information.

**History Department Requirements**

1. Each major shall concentrate in one area: American, European, Latin American or Global, or devise a thematic concentration and have it approved by the chair of the undergraduate studies committee.
2. Two prerequisite courses (six hours) are required in either World History (HIS 206 and HIS 208) or Western Civilization (201 and 202). These courses may also fulfill the UMKC general education requirements.
3. Ten courses in history at the upper division, 300-400 level, are required (30 hours)
4. A maximum of five of the ten courses, or 50 percent of upper division coursework, must fall into students’ field of concentration.
5. The other half of upper division coursework must be outside the students’ field of concentration, including History 301WI, History 498WI, and a non-western course (unless non-western is the area of concentration).
6. All History majors are required to complete History 301WI Historiography and Method and 499WI Senior Capstone as part of their 30-hour upper division requirement. These courses cannot be taken in the same semester and are not offered in the summer. Students must pass the WEPT prior to enrolling in these courses.
7. All majors will take at least one history department course that examines a non-western society. Non-western societies include socio-cultural groups that are not of European origins or that have evolved a distinctive non-European identity. In our department, non-Western courses include those which deal with:
   - Africa
   - Asia
   - Latin America
   - Non-European Peoples of the Middle East
   - Indigenous North Americans
8. History majors are strongly urged to pursue competence in a foreign language by continuing their foreign language training beyond the 13-hour general education requirement.
9. All history majors at UMKC are required to establish and maintain a portfolio of their undergraduate work. The portfolio is a measurement tool that will allow students and faculty mentors to monitor intellectual growth, acquisition and sharpening of skills, and mastery of historical knowledge while at UMKC. The online portfolio may include any written or visual assignment completed at UMKC. It must include at least the following:
   - One book review
   - One historiographical essay
   - One exam essay
   - History 301WI Research Prospectus
   - History 398WI Senior Capstone Research Paper

You should strive to make your portfolio materials as impressive as possible. Choose your best exam essay. If you received back a book review or historiographical assignment with suggestions for editing and revision, make the revisions and polish the paper before submitting it to the portfolio. Your 301WI Research Prospectus and your 499WI Senior Capstone should undergo several drafts before you submit them for grading. Again, make any changes that your professors suggest, and give the papers one last proofread and polishing before adding them to your portfolio. You will be responsible for managing your portfolio electronically.

**Concentrations**

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

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

**Courses by Concentration**

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

**Antiquity**

- **400C Introduction to Prehistoric & Classical Archeology**
- **400CT Clio and the Other Muses: History and Culture of 5th Century Athens**
- **400CT The Ancient World and the Cinema**
- **258 Archeology and Biblical History**
- **500 Ancient Egypt**
- **500 Ancient Greece**
- **500 Ancient Rome**
- **500N Ancient Israel**

**Medieval and Early Modern**

- **322 America, 1000-1763: The Formative Era**
- **322 America, 1763-1833: The Revolutionary Heritage**
- **334 African American History to 1877**
- **335 Courts and Culture in the High Middle Ages**
- **411A Medieval Civilization I**
- **411B Medieval Civilization II**
- **411A Women and Family in Medieval and Early Modern Europe**
- **411A The Black Death and Late Medieval Society**
- **411A Renaissance**
- **411B Reformation**
- **411A 17th and 18th Century Europe**
- **411A The French Revolution and Napoleon**
- **411A The Scientific Revolution, 1500-1700**
- **431R Medieval England, 1066-1485**
- **431M Tudor England, 1485-1603**
- **431R Britain, 1603-1832**
- **431M Medieval Jewish History**
Modern United States

300SW Dollars, Culture and America's Hemispheric Empire
300SN The West in Film: Fact and Fiction
300SH Mixeur and Kansas in the Era of the Border Wars
300SM Social History and Material Culture of 19th Century America
300WM The Sixties
300WH America, 1783-1828: The National Experience
300WH America, 1828-1852: The Jacksonian Period
300WH America, 1850-1877: Civil War and Reconstruction
300WH America, 1877-1917: Development of Industrial America
300WA America, 1914-1945: The Era of the World Wars
300WA America, 1945-Present: Our Times
300WA Immigrants and Immigration in American History
304A Women in Modern America
304A Rise of the City
304B Kansas City: History of a Regional Metropolis
353W Constitutional History
354R American Foreign Relations
366RR American Labor History
366RR African American History Since 1877
366RR Silver Screen and the American Dream
366RR Kansas City Labor History

Modern Europe

400WC Nordic History and Culture, 1750-Present
400WD Culture, Kultur, Civilization: Identity Formation in Middle Class
417B Nations and Empires: 19th Century Europe
417B The Age of Extremes: 20th Century Europe
417E Contemporary Europe, 1930-2000
417F The Darwinian Revolution, 1650-1900
417G The Ordeal of Total War, 1939-1945
417H Britain, 1832-Present
417I Imperial Germany
417I Weimar Germany
417J Nazi Germany
417J Cold War Germany
417K Modern Jewish History
417K The Holocaust and the State of Israel

Non-Western

300BM Indians of the Americas
300BM Latin American Crises and Opportunities
300BM Religion and Colonialism in Latin America
300BM Colonial Latin America
300BM Modern Latin America
300BM Women in Latin America
300BM Environmental History of Latin America
300BM Colonial and Postcolonial South Asia
300BM Twentieth Century Asia
300BM Islam and the Arabs: The Formative Period
300BM The Ottoman Empire in the Middle East to World War I
416B The Middle East from World War I to the Present
417K Japanese Civilization

Class, Race and Gender

300BM History of Sexuality
300BM History of Sport
300BM Indians of the Americas
300BM Masculinity in History
300BM Labor and leisure
300BM Social History and Material Culture of 19th Century America
300BM History of Fatherhood
300BM Sporting Cultures: African-Americans in Pursuit of the American Dream
300BM Immigrants and Immigration
300BM Women in Modern America
300BM American Labor History
300BM Girlhood and Boyhood in America
300BM Women and Work in Early America
300BM African American History Before 1877
300BM African American History Since 1877
400BM Sport & Film
400BM Women in Latin America
400BM History of Motherhood
400BM Kansas City Labor History
400BM Religion in America
400BM Women and Family in Medieval and Early Modern Europe
400BM History of the Body
400BM Women and Medicine: Patients and Practitioners from Antiquity to Present

Global

300SW Dollars, Culture and America's Hemispheric Empire
300SN Indians of the Americas
300SN America, 1000-1763: The Formative Era
300SN American Foreign Relations
300SN The World Made Modern: World War I & Popular Film
300SN Latin American Crises and Opportunities
300SN Religion and Colonialism in Latin America
300SN Colonial Latin America
300SN Modern Latin America
300SN Colonial and Postcolonial South Asia
300SN Twentieth Century Asia
300SN The Ordeal of Total War, 1939-1945
300SN The Ottoman Empire in the Middle East
Africana Studies is inherently interdisciplinary, and students who choose this minor will acquire a broad-based knowledge and understanding of the issues and research methodologies that have shaped scholarship in African-American studies. They will have the chance to learn specifics about the history, literature, artistic expression and cultural contexts of Africans and African Americans here in the United States, as well as in other parts of the world. They should also have an enhanced perspective of their major discipline after completing the minor. The addition of a minor is especially useful for students outside history or English studies who want to study African-American studies, but do not have that opportunity in their specific major.

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

Required Courses

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS 334/550</td>
<td>Introduction to African-American Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 331</td>
<td>African-American Literature Survey I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 333</td>
<td>African-American Literature Survey II</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 394</td>
<td>African-American History Before 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 395</td>
<td>African-American History Since 1877</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 315/497H</td>
<td>Art of African, Oceanic and New World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ART 390/497H</td>
<td>The African Diaspora in the Arts and Culture</td>
<td>3</td>
</tr>
<tr>
<td>ART 390/497H</td>
<td>African/African-American Women and Creativity</td>
<td>3</td>
</tr>
<tr>
<td>ART 390/497H</td>
<td>African/African-American Art</td>
<td>3</td>
</tr>
<tr>
<td>ECON 314</td>
<td>Race, Class and Gender: Theory, History and Policy</td>
<td>3</td>
</tr>
<tr>
<td>ECON 495D</td>
<td>Area Studies in Economics-Africa</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 311</td>
<td>Black Women Writers</td>
<td>3</td>
</tr>
<tr>
<td>SOC 310</td>
<td>Sociology of Women</td>
<td>3</td>
</tr>
<tr>
<td>SOC 496</td>
<td>Race and Ethnic Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional courses with significant Africana Studies content with approval of faculty coordinator | 3 |
HEALING AND HUMANITIES MINOR
For elective credit.

NURSE 430A
Health/Biology Core (3 credit hours)

Electives *                                    6
Elective Courses

The following classes can be used toward the nine credit hours of core requirements:
- SOC 310R Families and the Life Course or PSYCH 453P Family Life Cycle: Developmental Approach to Understanding Family Dynamics (Note: These two classes are equivalent. Do not take both SOC 310R and PSYCH 453P.)
- SOC 211 Social and Psychological Development Through the Life Cycle
- PSYCH 322 Child Psychology (Note: PSYCH 210 is a prerequisite for this course.)
- Other classes can be used toward the required nine credit hours of electives for the family studies minor.

Consult the "special courses" link of the online class schedule each semester for a list of classes fulfilling the Family Studies Minor elective requirements.

For more information, contact the Family Studies Program Director.

GERONTOLOGY MINOR AND CERTIFICATE PROGRAMS
5215 Rockhill Road
(816) 235-2186
http://cas.umkc.edu/cas

Program Director:
Linda M. Breytspraak, Director, Center on Aging Studies, (816) 235-1744
Program Adviser:
Lois Fitzpatrick, Center on Aging Studies, (816) 235-2182

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

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

Required Courses

Sociology Core (choose one)
SOC 410R Aging in Contemporary Society 3
SOC 411R Aging in American Society: Past and Present 4

Psychology Core (choose one)
PSYCH 440 The Psychology of Aging 3
PSYCH 441 Adult Development and Aging 3

Health/Biology Core (3 credit hours)
NURSE 430R The Experience of Health
NURSE 430R in Aging (All 3 are required to satisfy core.) 3
HS 410SP Biomedical and Ethical Issues in Aging 3

Field Practicum
AS 492 Field Practicum in Aging 3

Elective Courses
Electives *                                    6

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

HEALING AND HUMANITIES MINOR
Scofield Hall, Room 9
711 E. 51st Street

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

The interdisciplinary minor in healing and humanities enables students to explore the complicated nature of health care issues by integrating knowledge from the arts and humanities with the social and natural sciences. The minor is particularly appropriate for students considering health-related professions, complementing other scientific, clinical and professional preparation. Health care careers are projected to be among the fastest-growing fields well into the 21st century. America's changing health care environment increasingly calls for individuals who understand the complexity of factors affecting healing and who are able to take a humane, holistic approach.

The healing and humanities curriculum enables pre-health and health professions students to develop an interdisciplinary foundation for a future health care career. To earn a minor in healing and humanities, students must earn at least 18 credit hours from the list of approved courses below and other courses as approved by the program adviser. Credits must be earned in at least three departments or curricular designations. At least nine credit hours must be upper-division (i.e., 300 or 400), and at least nine must be earned at UMKC. Students may select from among a wide variety of courses offered by many participating departments. The program adviser is available to provide academic advice on course selections and degree requirements, as well as career guidance. Students interested in the healing and humanities minor should consult with the program adviser to plan a program of study.

Approved Courses:
- American Studies 350 Medical Humanities and American Studies
- Anthropology 328 Anthropology of the Body
- Art 300CA Images of the Human Body in the Renaissance (Interdisciplinary Cluster Course)
- Art 300CH Healing and the Arts (Interdisciplinary Cluster Course)
- Art 300CM Body Images in Medicine and the Arts (Interdisciplinary Cluster Course)
- Arts and Sciences 100 (First Year Seminar, Pre-Health sections only)
- Arts and Sciences 240 Analysis of Medical Terminology
- Arts and Sciences 304CM Body Images in Medicine and the Arts (Interdisciplinary Cluster Course)
- Arts and Sciences 365P Introduction of Substance Abuse Counseling: Theory and Practice
- Arts and Sciences 420 Literature: A Healing Art
- Arts and Sciences 492 Field Practicum in Aging
- Chemistry 206 Human Nutrition
- Communication Studies 140 Principles of Communication
- Communications Studies 344 Communication in Organizational Settings
- Communication Studies 377 Interpersonal Communication
JUDAIC STUDIES MINOR AND CONCENTRATION

The Department of History is a major participant in the Judaic Studies Minor and Concentration.

For a minor in Judaic Studies, students must complete a minimum of 18 hours of coursework. These courses should include:

1. History 475 History of Ancient Israel.
2. History 476 Medieval Jewish History.
3. History 477 Modern Jewish History.

In addition, students should take several semesters of Hebrew language. The remaining credits may consist of electives approved by the Interim Judaic Studies adviser.

For a concentration in Judaic Studies, a student must complete 15 hours of coursework that includes the History courses listed above. Those pursuing the concentration are also encouraged to study the Hebrew language.

For further information, contact Dr. Carla Klausner, Professor of History and Interim Director of Judaic Studies.

BACHELOR OF ARTS: PHILOSOPHY

Degree Requirements

Philosophy majors are required to complete 30 credit hours of philosophy coursework. Required courses include:

- Philosophy 210 Foundations of Philosophy (3)
- Philosophy 222 Foundations of Logic and Scientific Method (3)
- Philosophy 310W Ancient Philosophy (3)
- Philosophy 338 Philosophy of Biology (3)
- Philosophy 334 Philosophy of Science (3)
- Philosophy 338 Philosophy of Biology (3)
- Philosophy 360 Current Issues in Bioethics (3)
- Philosophy 401PC Biological and Ethical Issues in Aging (Interdisciplinary Cluster Course) (3)
- Philosophy 400CO Issues in Death and Dying (Interdisciplinary Cluster Course) (3)
- Philosophy 410W Philosophy of Science (3)
- Philosophy 420W Philosophy of Science (3)
- Philosophy 433 Abnormal Psychology (3)
- Philosophy 440 Adult Development and Aging (3)
- Philosophy 441 Adult Development and Aging (3)
- Philosophy 450R Philosophy of Law and Society (3)

No more than nine 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 222: Symbolic Logic, and to develop reading knowledge of a foreign language. In most cases, it would be best to know German or French.

BACHELOR OF ARTS: POLITICAL SCIENCE

Degree Requirements

The department requirement for a major is 30 hours of political science.

Required Courses

Students must take the following political science courses:

- 210 American Government
- 226 Comparative Politics
Senior Seminar

- or -

Senior Seminar (Capstone)

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 GPA in their approved departmental program.

The major in political science serves both to foster a liberal arts education and to meet a range of pre-professional educational objectives. Courses 210 and 220 should be taken as early in the student's program as possible. 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 eight subfields. There are occasional changes and additions to this list, so speak to the undergraduate adviser in Political Science.

**Approaches to the Study of Politics**

- 302 Political Research And Analysis
- 301 Introduction To Comparative Politics
- 300 Survey Research And Analysis
- 311 Political Psychology

**Political Theory**

- 301 Western Political Philosophy
- 310 Religion And Politics
- 335 Cyberspace, Technology & Politics
- 341 The Theory Of Democracy
- 340 American Political Thought
- 341 Jurisprudence
- 342 The Politics Of Sex And Gender
- 343 Political Ideology
- 344 Contemporary Political Thought
- 345 Political Freedom
- 346 American Political Thought

**Public Law**

- 346 Introduction to the Trial Process
- 348 Constitutional Law: The Federal System
- 335 Constitutional Law: Civil Liberties
- 340 American Constitutional Thought
- 341 Courts And Public Policy

**Comparative Politics**

- 306 Politics Of The Developing Nations
- 311 Comparative Politics: Techniques Of Social Control
- 317 Revolutionary Origins Of The Modern State
- 351 Chinese Politics
- 353 Politics In Russia
- 354 Politics In Eastern And Central Europe
- 355 European Politics
- 358 Latin American Politics
- 356 Politics Of The Middle East
- 347 Comparative Politics
- 348 Political Culture And Political Behavior

**International Relations**

- 306 International Relations
- 307 The United Nations: Politics And Economics
- 308 Nationalism And Ethnic Conflict
- 336 American Foreign Policy
- 435P Politics Of The Environment
- 433 National Security Policy
- 451 International Politics In Europe

**American National Politics**

- 308 Politics, Parties And Pressure Groups
- 309 Public Opinion And Voting Behavior
- 310 Parliamentary Systems
- 317 Mass Media And American Politics
- 318 Public Policy
- 319 Campaigns And Elections
- 320 Racial & Ethnic Politics
- 330 The Politics of Social Security
- 406 Presidential Politics
- 406P Political Leadership
- 407 Congressional Politics
- 407P Politics Of Representation
- 408 Judicial Politics
- 409 Bureaucratic Politics
- 409P Bureaucratic Politics

**American State and Local Politics**

- 311 Politics In The American States
- 312 Local Governments
- 326 State And Local Government
- 427 Urban Politics and Community Power Structures
- 438 Urban Politics

**Study Abroad Programs, Experiential Courses and Internships**

- 491 Internship

**Note**: Courses 497 and 498 will only satisfy a subfield requirement if specifically approved by the undergraduate adviser.

**BACHELOR OF ARTS: PSYCHOLOGY**

Contact:

For questions regarding the undergraduate Psychology program, or to schedule an appointment with a Psychology program adviser, please contact the Undergraduate Psychology Advising Office at umkcpUGA@umkc.edu or (816) 235-1092. If the advisers are unavailable, please contact the Department of Psychology Office (816) 235-1318 to schedule an appointment with a program adviser.
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.

See [http://cas.umkc.edu/psyc/undergrad/advising.htm](http://cas.umkc.edu/psyc/undergrad/advising.htm) for more information.

STUDENT LEARNING OUTCOMES

Bachelor of Arts in Psychology

Students graduating with a B.A. in Psychology will:

- Possess a fundamental understanding of the theories, methods and concepts of psychology.
- Comprehend the value of the scientific method for understanding human behavior and solving social and behavioral problems.
- Develop a life-long learning orientation, including critical thinking and reasoning skills.
- Be prepared for highly competitive post-baccalaureate academic programs as well as post-graduation employment throughout the state, region and nation.

ADVISING SYSTEM

For undergraduate Psychology program information, please contact the Undergraduate Psychology Program Advising Office at umkcPUGA@umkc.edu or (816) 235-1092.

For UMKC College of Arts & Sciences general education requirements, please contact the College of Arts & Sciences Advising Office directly at (816) 235-1148.

See the psychology advising Web site, [http://cas.umkc.edu/psyc/undergrad/advising.htm](http://cas.umkc.edu/psyc/undergrad/advising.htm), for more information.

REQUIREMENTS

The information on the Department of Psychology web page ([http://cas.umkc.edu/psyc/undergrad/index.htm](http://cas.umkc.edu/psyc/undergrad/index.htm)) supersedes information in the Department of Psychology catalog section. Please see an undergraduate Psychology program advisor for the most current course descriptions and pre-requisites.

Majors are required to complete a minimum of 31 hours of coursework in psychology. Of the 31 hours of required coursework in psychology, a minimum of 22 hours must be completed at UMKC.

The major is comprised of general, core area and elective courses.

General Courses (13 hours)

Students must complete the following four general courses:

1. PSYCH 210 General Psychology
2. PSYCH 316 Quantitative Methods in Psychology
3. PSYCH 302WI Experimental Psychology
4. PSYCH 415 History and Systems of Psychology

Note: PSYCH 316, 302WI and 415 must be completed at UMKC.

Core Area and Elective Courses (18 hours)

The remaining hours comprise a minimum of four core area courses and two elective courses. A minimum of one course must be taken from each core area.

Students may transfer core areas and/or psychology electives approved by the Department of Psychology. However, a minimum of 22 credit hours must be taken from the Department of Psychology at UMKC.

Core Area A:

- PSYCH 312 Social Psychology or
- PSYCH 322 Child Psychology

Core Area B:

- PSYCH 323 Theory and Methods of Personality or
- PSYCH 413 Abnormal Psychology

Core Area C:

- PSYCH 308 Sensation and Perception or
- PSYCH 418 Biopsychology

Core Area D:

- PSYCH 304 Learning or
- PSYCH 405 Motivation or
- PSYCH 407 Cognitive Psychology

Two elective courses:

A minimum of two (300-400 level) elective courses in psychology must be selected with the assistance of a Department of Psychology adviser. See the psychology advising Web site, [http://cas.umkc.edu/psyc/undergrad/advising.htm](http://cas.umkc.edu/psyc/undergrad/advising.htm), for a complete list of undergraduate psychology courses that may serve as these electives. A maximum of 3 credit hours for psychology 490 may be used toward fulfilling elective requirement.

Music Therapy/Psychology Double Majors

For students double-majoring in Music Therapy and Psychology:

- CONS 260 Clinical Foundations of Music Therapy
- CONS 435 Psychological Foundations of Music

Other Requirements

A grade of "C-" or higher must be achieved for any course to apply toward the major in Psychology. When you have completed 90 credit hours, contact Arts and Sciences Advising (Scalfeld Hall, room 9) to conduct a senior audit. They will give you the materials you need for the Psychology audit (completed at Psychology Advising, 4825 Troost, suite 110).

Completion of PSYCH 316 at Another Institution

If a student has completed PSYCH 316 at another institution, he/she may petition to take an exam demonstrating mastery of PSYCH 316 course content. A score of 70 percent or above must be earned on the exam. The exam may only be attempted once. See a psychology department adviser for more information.

Suggested Plan of Study

The information on the Department of Psychology web page ([http://cas.umkc.edu/psyc/undergrad/index.htm](http://cas.umkc.edu/psyc/undergrad/index.htm)) supersedes information in the Department of Psychology catalog section. Please see an undergraduate Psychology program advisor for the most current course descriptions and pre-requisites.

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.

Recommended Plan of Study

PSYCH 210 General Psychology must be completed prior to enrollment in upper division (300 & 400 level) courses. The department recommends completing this course as part of the General Education requirements.

Semester 1:
- PSYCH 316 Quantitative Methods in Psychology
- One Core Area Course*

Semester 2:
- PSYCH 302WI Experimental Psychology
- One Core Area Course*

Semester 3:
- Two Core Area Courses*

Semester 4:
- PSYCH 415 History and Systems of Psychology
- Required Psychology Elective 1
- Required Psychology Elective 2

* The plan of study requires a minimum of one course from each of the four Core Areas.

General Advice for Developing a Plan of Study

Note that the Psychology Department varies course offerings each semester. Not all courses are offered every year. Students with the required prerequisite courses who are interested in a particular elective or core area course should enroll when it is offered.

Do not plan to complete coursework by taking courses during the summer. The department usually offers some courses during the summer term, but doesn't guarantee that all required courses will be offered.

Make sure the pre-requisites for courses are met prior to enrollment. Students who do not meet course pre-requisites will be asked to drop from the course during the first week of the term. At that time alternative courses may no longer be open.

PSYCHOLOGY MINOR/DUPLICATE MAJOR

Eighteen hours of coursework in psychology are required for a psychology minor with at least 12 of those hours at the upper-division level. Of the 18 hours of required coursework in psychology, a minimum of nine hours must be completed at UMKC. An additional two (300/400-level) elective courses are required and must be selected from courses taught in the UMKC Psychology Department. A grade of "C-" or higher must be achieved for any course to apply toward the minor in psychology.

The following are required of all psychology majors and minors:
- PSYCH 210 General Psychology (3)
- PSYCH 302WI Experimental Psychology (4)
- PSYCH 316 Quantitative Methods In Psychology (3)
- PSYCH 415 History And Systems Of Psychology (3)

Note: PSYCH 302WI, 316 and 415 must be completed at UMKC.

Conservatory of Music and Dance students in the bachelor of arts in music with a music therapy emphasis program who also want to major in psychology may apply up to six hours of courses taken in the Conservatory toward the psychology major. Specifically, Conservatory 260, Clinical Foundations of Music Therapy, can be counted as one of the two required electives; and Conservatory 435, Psychological Foundations of Music, may fulfill core area C or D (308/418 or 304/405/450).

Completion of PSYCH 316 at Another Institution

If a student has completed PSYCH 316 at another institution, he/she may petition to take an exam demonstrating their mastery of PSYCH 316 course content. A score of 70 percent or above must be earned on the exam. The exam may only be attempted once. See a Psychology Department adviser for more information.

FOCUS AREAS FOR MAJOR

Majors may develop a focus within the major in one of the areas outlined below. These focus areas are designed to aid the student in selecting a plan of study related to personal or career interests.

Sexualities, Families, and the Life Cycle:
- SOC 211 Social And Psychological Development Through The Life Cycle
- SOC 310R Families And The Life Course
- SOC 316 Sociology Of Death And Dying
- SOC 328 Anthropology Of The Body
- SOC 410R Aging In Contemporary Society
- SOC 411 Sociology Of Human Sexuality
- SOC 416 Aging And Developmental Disabilities
- SOC 417 Practicum In Aging And Developmental Disabilities
- SOC 440R Sociology Of Medicine

Inequalities: Race, Class, Gender and Nations:
- SOC 309 Social Stratification
- SOC 309CW Cluster Course: Introduction To Women's Studies
- SOC 313R Sociology Of Women
- SOC 322 Race And Ethnic Relations
- SOC 351 Gender, Work And Social Change
- SOC 441 Developing Countries

Community Engagement:
- SOC 310R Families And The Life Course
- SOC 317 Policies Of Drug Use And Control
- SOC 319 Theoretical Criminology
- SOC 321 Urban Anthropology
- SOC 322 Sociology Of Political Life
- SOC 335R Introduction To Social Work: Principles And Practice
- SOC 336 Society And Community Service
- SOC 337 Community Development In Urban America
- SOC 420 Control Of Crime And Delinquency
- SOC 421 Criminal Behavior In The United States
Cultural Anthropology:

- ANTHRO 103 Introduction To Cultural Anthropology
- ANTHRO 308 Social Stratification
- ANTHRO 328 Anthropology Of The Body
- ANTHRO 331 Urban Anthropology
- ANTHRO 346 Cultures Of The African Diaspora

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 of sociology courses are required for a minor, including the introductory course, SOC 101. At least 9 of the 18 credit hours must be in courses at the 300- or 400-level. Where courses are cross-listed in the major and minor, only 3 credit hours can be applied to both.

Minor in Anthropology

Anthropology is a holistic and cross-culturally comparative science that is uniquely qualified to prepare students for multicultural work and social environments in the U.S. and abroad. Careers for anthropologists, however, lie in all areas of human interaction. Anthropologists are especially attractive to companies and government agencies that work with and for national minorities and in foreign countries.

Students will be introduced to the subject and methods of cultural anthropology, examining its foundations and current trends in theory and applications. Students earning a minor in anthropology take 3 credit hours of required coursework (ANTHRO 103, Introduction to Cultural Anthropology) and 15 credit hours of elective courses, which result in a total of 18 hours. Electives can be planned around an area of specialization. At least 9 of the 18 credit hours must be in courses at the 300- or 400-level. Where courses are cross-listed in the major and minor, only 3 credit hours can be applied to both. Students should consult with the program coordinator to select the appropriate courses.

Bachelor of Arts in Theatre

The main objective of the B.A. in Theatre is to give students a broad education. The degree requirements for the B.A. in Theatre furnish our majors with a well-rounded education in all aspects of theater. 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 theater. They can choose from a wide variety of courses including stage management, design, performance and playwriting.

Performance Track

Students interested in performance may select the performance track. Courses are geared toward students who want a professional career as an actor or want to prepare for placement in a top graduate program. Students receive instruction in voice, movement, acting, Shakespeare and specialty areas such as stage combat or physical theater.

Design/Tech Track

The design/tech track offers students interested in areas of technical theater and design the opportunity to develop the skills necessary to work in the professional theater or attend a top graduate school. Within this track students might choose to emphasize a particular area of design. Students can focus their studies in scenic design, costume design, lighting design, sound design or stage management.

All Tracks

Production experience as well as internship opportunities give undergraduate theater 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 theater experience at UMKC. In a typical year there are two undergraduate productions in addition to as many as seven department productions, providing plenty of opportunity. The department also has relationships with many professional theaters. 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 150 Theatre Production
- THEAT 210 Introduction to Design for the Theatre
- THEAT 350 Theatre History I
- THEAT 351WI Theatre History II (Writing Intensive)
- THEAT 378 Stage Management I
- THEAT 380 Theatre Production
- THEAT 415 Beginning Directing (Capstone)
- THEAT 400 or 497 Theatre Outreach / Internship

Track Requirements - 20 hours

Undergraduates can choose the following tracks:

- General Theatre
- Performance
- Design/Tech

Contact the Theatre Department for track requirements.

Minimum Grade Requirements

Students must get a grade of C or above in required courses in the major.

Non-Departmental Requirements - six total hours

six credits total in music and art (three hours each).

Theatre Minor

A minor in theater consists of a minimum of 18 credit hours, including Theatre 130, and 15 additional hours approved by a theater faculty adviser. A minimum of nine hours must be completed at the 300-400 level.

Advising System

Advising services for undergraduate theatre majors are coordinated by the undergraduate director, Gary Holcombe  (816) 235-2544.

Bachelor of Arts: Urban Studies
It is recommended that students planning an urban studies major take Environmental Science 110R, Environmental Science 210, or Geology 220 to satisfy part of the natural sciences area general degree requirements of the College. Architectural Studies 110 should be elected as one of the humanities area courses. In preparation for the core requirements of the urban studies major, the student should take Economics 201, Sociology 101, Geography 105, and Psychology 210.

Requirements (48 hours)

Core Courses (24 hours)

All urban studies majors are required to take the following core requirements:

- Urban Studies 101 Introduction to Urban Studies
- Geography 309 Urban Geography
- Statistics 216 Applied Statistics for Public Administration
- or Sociology 101 Introduction to Statistics in Sociology/Criminal Justice
- Urban Planning and Design 260 History of Urban Planning
- or History 310 Special Studies: Kansas City History
- Political Science 438 Urban Politics
- or Political Science 376 State and Local Government
- or Economics 316 Kansas City Economy
- or Economics 458 Urban Economics
- or Sociology 327 Methods of Sociological Research
- Urban Planning and Design 306 Quantitative Planning Methods and Techniques
- or Economics 314 Race, Class and Gender: Theory, History and Policy
- or Sociology 317 Race and Ethnic Relations
- or Political Science 312 African Americans and the Political Process
- or Urban Studies 499WI Urban Studies Seminar

Concentration (18 hours)

In addition to the core requirements, 18 hours must be taken in an area of concentration:

- Community Development and Housing
- Community Organization and Social Services
- Urban Policy/Management

In consultation with an adviser, selected by the student or designated by the program director, students are expected to develop a program (reflecting interest and applicability to career goals) in one area of concentration: a required course and five electives from those listed under the concentration chosen. Students may not double count any core courses toward the 18 hours.

Community Development and Housing Concentration

Required Course:
- Urban Studies 340 Neighborhood and Community Development
- or Urban Planning and Design 340 Neighborhood and Community Development

Electives (choose five):
- Art & Art History 333 Design & Form of KC
- Architectural Studies 110 The Meaning of Architecture
- Architectural Studies 301 Environmental Design Studio I
- Architectural Studies 302 Environmental Design Studio II
- Economics 316 Kansas City Economy
- Geography 203 Intro to Geographic Information Systems (GIS)
- Geography 311 Economic Geography
- Geography 312 Cartography
- Geography 333 Geography Elements of Urban Planning
- Geography 401 Advanced Geographic Information Systems (GIS)
- Geography 437 Population Geography
- Sociology 311 Urban Anthropology
- Sociology 333 Community Development in Urban America
- Sociology 334 Social Organization of the City
- Urban Planning and Design 203 GIS for Urban Planning
- Urban Planning and Design 260 History of Planning and Urban Design
- Urban Planning and Design 270 Urban Planning Theory and Practice
- Urban Planning and Design 315 Planning & Design Studio I
- Urban Planning and Design 319 Planning & Design Studio II
- Urban Planning and Design 400 Advanced GIS for Urban Planning
- Urban Planning and Design 430 Transportation Planning
- Urban Planning and Design 436 Planning for Historic Preservation
- Urban Planning and Design 450 Planning Law & Practices
- Urban Planning and Design 472 Urban Redevelopment

Community Organization and Social Services Concentration

Required Course:
- Sociology 311 Urban Anthropology
- or Sociology 311 Urban Anthropology

Electives (choose five):
- Criminal Justice and Criminology 101 Introduction to Criminal Justice
- Criminal Justice and Criminology 378 Policies of Drug Use & Control
- Economics 314 Race, Class, and Gender: Theory, History, and Policy
- Geography 203 Intro to Geographic Information Systems (GIS)
- Geography 437 Population Geography
- History 332 Immigrants and Immigration in American History
- Psychology 402 Introduction to Developmental Disabilities
- Psychology 407 Developmental Disabilities and Community Life
- Psychology 430 Introduction to Community Psychology
- Sociology 211 Social & Psychological Development
- Sociology 307 Social Stratification
- Sociology 321 Race and Ethnic Relations
- Sociology 321 Urban Anthropology
- Sociology 335Q Introduction to Social Work
- Sociology 337 Community Development in Urban America
- Sociology 348 Latin American Immigrants and Refugees in the United States
- Sociology 351 Social Organization of the City

Urban Policy/Management Concentration

Required Course
Electives (choose five):

- Economics 435 Public Finance
- Economics 437 State and Local Government Finance
- Economics 450E Regional Economics
- Economics 458 Urban Economics
- Geography 201 Introduction to Geographies Information Systems (GIS)
- Geography 311 Economic Geography
- Geography 337 Geographic Elements of Urban Planning
- Geography 437 Population Geography
- Philosophy 450W Ethics and Government
- Political Science 318 Politics of Kansas City Metro
- Political Science 320 State and Local Government
- Psychology 403 Environmental Psychology
- Public Administration 315 Introduction to Public Administration
- Public Administration 457 Urban Environmental Policy
- Urban Planning and Design 202 GIS for Urban Planning
- Urban Planning and Design 270 Urban Planning Theory and Practice
- Urban Planning and Design 470 Transportation Planning
- Urban Planning and Design 472 Urban Environmental Planning and Design
- Urban Planning and Design 556 Planning Law and Practice

Internship (6 hours)

In developing internships, students should contact one of the program’s participating faculty members or the urban studies director.

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 is evaluated academically.

The internship may be repeated up to a maximum of three semesters and should be taken as Urban Studies 495 Urban Studies Internship. Other internship courses may satisfy this requirement with approval of the adviser.

Summary

During the first 60 hours of coursework, students are advised to fulfill prerequisites for core courses and for required courses in the urban studies concentration they choose. At the same time, students should fulfill general graduation requirements, where possible, through completion of courses listed under General Degree Requirements in Arts and Sciences.

When prerequisites and general requirements have been satisfied, students must complete for the urban studies major:

- Core course requirements: 24 hours
- Concentration requirements: 18 hours
- Internship: 6 hours

Total hours required for the major in urban studies: 48

Biological Sciences, School of

BIOLOGICAL SCIENCES, SCHOOL OF

- Bachelor of Science in Biology
- Suggested Plan of Study
- Bioinformatics Emphasis
- Biotechnology Emphasis
- Cellular and Molecular Basis of Health and Disease Emphasis
- Pre-Dentistry Concentration
- Bachelor of Science in Medical Technology
- Bachelor of Arts in Biology

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>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. Two of the following laboratory courses are required for a minimum of 5 credit hours. One of these courses must be a Writing Intensive (WI) course. The second may be taken using the non-WI option.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 312L</td>
<td>Laboratory in Developmental Biology, Genetics and Cell Biology (WI)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 312WL</td>
<td>Laboratory in Microbiology(WI)</td>
<td>3</td>
</tr>
<tr>
<td>LMCRES 315L</td>
<td>Laboratory in Microbiology(WI)</td>
<td>3</td>
</tr>
<tr>
<td>LMCRES 315WL</td>
<td>Laboratory in Histology and Cellular Ultrastructure(WI)</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 321L</td>
<td>Laboratory in Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 321WL</td>
<td>a md Molecular Biology (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LSARAT 390L</td>
<td>Introductory Anatomy Laboratory</td>
<td>2</td>
</tr>
</tbody>
</table>

3. The Biology Synthesis requirement may be met by a total of 3 credit hours chosen from the following:

<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 (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LS 499W</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 499</td>
<td>Special Topics</td>
<td>1-3</td>
</tr>
</tbody>
</table>

4. Students must complete additional biology coursework for a total of 42 credit hours of biology courses with grades of C- or better. 26 of these hours must be junior/senior level. A minimum of
21 credit hours of biology courses must be taken from the School of Biological Sciences.

B. Physical Sciences and Mathematics Course Requirements

The following courses must be completed with grades of C- or better.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</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 210</td>
<td>General Physics I</td>
<td>4-5</td>
</tr>
<tr>
<td>PHYS 250</td>
<td>Science and Engineering I</td>
<td>4-5</td>
</tr>
<tr>
<td>CHEM 211</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 212</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL ___</td>
<td>Biology Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students may choose LS 401 Biophysical Principles (3 credit hours) as an alternative to PHYS 250.

SUGGESTED PLAN OF STUDY

This is a general plan that may be adjusted to accommodate individual background interests, abilities and career objectives.

**Freshman Year**

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 108*</td>
<td>General Biology I</td>
<td>3</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>
</tbody>
</table>

General Education Requirement (ex: ENGL 110) 3

Total: 12

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 109*</td>
<td>General Biology II</td>
<td>3</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>
</tbody>
</table>

General Education Requirement (ex: HIST 115 or 116) 3

General Education Requirement (ex. Higher Order Thinking elective) 3

Total: 15

*General Biology II may be taken before General Biology I if desired.

**Sophomore Year**

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 202</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 321L</td>
<td>Organic Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 210*</td>
<td>Calculus I</td>
<td>4</td>
</tr>
</tbody>
</table>

General Education Requirement (ex. English 225) 3

Total: 17

* Prerequisite MATH 110 or 4 years HS Math including Algebra II, and Trigonometry.

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL ___</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322R</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 322L</td>
<td>Organic Chemistry II Lab</td>
<td>1</td>
</tr>
<tr>
<td>STAT 220</td>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL ___</td>
<td>Biology Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 13-14

**Junior Year**

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSBIOC 341</td>
<td>Basic Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>BIOL ___</td>
<td>Biology Elective</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 211 or 221 or 223</td>
<td>General Physics I or II or III</td>
<td>4-5</td>
</tr>
</tbody>
</table>

General Education Requirement (ex. Humanities Elective) 3

Elective 2

Total: 15-16

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL ___</td>
<td>Biology Elective</td>
<td>3</td>
</tr>
<tr>
<td>BIOL ___</td>
<td>Biology Lab Elective</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 222 or 223</td>
<td>General Physics II or III</td>
<td>4-5</td>
</tr>
</tbody>
</table>

General Education Requirement (ex. Higher Order Thinking elective) 3

Elective 2

Total: 15-16

**Senior Year**

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL ___</td>
<td>Biology Elective</td>
<td>3</td>
</tr>
<tr>
<td>BIOL ___</td>
<td>Biology Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 6-7

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL ___</td>
<td>Biology Elective</td>
<td>3</td>
</tr>
<tr>
<td>BIOL ___</td>
<td>Biology Lab Elective</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 231 or 232 or 233</td>
<td>General Physics III or IV</td>
<td>4-5</td>
</tr>
</tbody>
</table>

General Education Requirement (ex. Higher Order Thinking elective) 3

Elective 2

Total: 15-16
BIOL ___  Biology Lab Elective  3
General Education Requirement
(ex. Social & Behavioral Science Elective)  3
General Education Requirement
(ex. Fine Art Elective)  3

Total:  15

Spring Semester
BIOL ___  Biology Synthesis  3
General Education Requirement
(ex. Social and Behavioral Science Elective)  3
BIOL ___  Biology Elective  3
Elective  3
Elective  3

Total:  15

Students must complete a total of 42 credit hours of biology courses with grades of C- or better and maintain a cumulative UM Biology GPA of at least 2.0. 26 of these credit hours must be junior/senior level and must include LSBIOC 341, a biology synthesis course, and two laboratory courses. One Biology Lab must be Writing Intensive.

**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></td>
</tr>
<tr>
<td>BIOL 108L</td>
<td></td>
</tr>
<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. Emphasis course requirements (9 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSBIOC 425</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 430</td>
<td></td>
</tr>
<tr>
<td>BIOL 405</td>
<td></td>
</tr>
</tbody>
</table>

3. Biology laboratory courses: LSBIOC 360WL taken with the writing intensive option and one additional lab course are required for a minimum of 5 credit hours.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSBIOC 360WL</td>
<td></td>
</tr>
<tr>
<td>BIOL 312L</td>
<td></td>
</tr>
<tr>
<td>BIOL 312WL</td>
<td></td>
</tr>
<tr>
<td>LSMCRB 313L</td>
<td></td>
</tr>
<tr>
<td>LSMCRB 313WL</td>
<td></td>
</tr>
<tr>
<td>LSANAT 118L</td>
<td></td>
</tr>
</tbody>
</table>

4. Biology Synthesis requirement (Choose a total of 3 credit hours)

<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. Students must complete additional biology coursework for a total of 42 credit hours of biology courses with grades of C- or better. At least 26 of these must be at the 300- or 400-level. A minimum of 21 credit hours of biology courses must be taken from the School of Biological Sciences. The UM Biology GPA must be 2.0 or higher.

**B. Physical sciences and mathematics requirements**

All of the following courses are required. A grade of C- or better is required in each course used to fulfill these requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101</td>
<td></td>
</tr>
<tr>
<td>CS 191</td>
<td></td>
</tr>
<tr>
<td>CS 201</td>
<td></td>
</tr>
<tr>
<td>MATH 210</td>
<td></td>
</tr>
<tr>
<td>MATH 220</td>
<td></td>
</tr>
<tr>
<td>MATH 235</td>
<td></td>
</tr>
<tr>
<td>PHYS 210 or</td>
<td></td>
</tr>
<tr>
<td>PHYS 220 or</td>
<td></td>
</tr>
<tr>
<td>PHYS 230 or</td>
<td></td>
</tr>
<tr>
<td>PHYS 261 or</td>
<td></td>
</tr>
<tr>
<td>CHEM 111</td>
<td></td>
</tr>
<tr>
<td>CHEM 211</td>
<td></td>
</tr>
<tr>
<td>CHEM 212 or</td>
<td></td>
</tr>
<tr>
<td>CHEM 212</td>
<td></td>
</tr>
<tr>
<td>CHEM 212</td>
<td></td>
</tr>
<tr>
<td>CHEM 212</td>
<td></td>
</tr>
<tr>
<td>CHEM 212</td>
<td></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.

**Biotechnology Emphasis**

**Biology Course Requirements**
This instructional program is designed to prepare students for careers in the biotechnology industry as well as careers in basic biological research. A B.S. degree in Biology with the Biotechnology Emphasis also is appropriate for those students who wish to pursue advanced degrees in cell and molecular biology, genetics, microbiology or biochemistry.

A. Biology course requirements

1. Core courses (17 credit hours):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 104</td>
<td>General Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>General Biology I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 312</td>
<td>Basic Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Emphasis course requirements (12 credit hours):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 109</td>
<td>Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 206</td>
<td>General Biology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 210</td>
<td>Genetics</td>
<td>3</td>
</tr>
</tbody>
</table>

3. Laboratory course requirements (9 credit hours; 6 of these must be WI):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 313</td>
<td>Introduction to Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 313L</td>
<td>Lab in Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 313R</td>
<td>Molecular Biology and Genetic Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

4. Biology synthesis requirement (3 credit hours):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 409</td>
<td>Senior Seminar (WI)</td>
<td>3</td>
</tr>
</tbody>
</table>

5. Students must complete additional biology majors coursework to total at least 42 credit hours of biology courses with grades of C- or better. At least 26 of these must be at the 300- or 400-level. A minimum of 21 credit hours of biology courses must be taken from the School of Biological Sciences. The UM Biology GPA must be at least 2.0.

B. Physical sciences and mathematics requirements

All of the following courses are required. A grade of C- or better is required in each course used to fulfill these requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101</td>
<td>Problem Solving and Programming</td>
<td>1</td>
</tr>
<tr>
<td>STAT 211</td>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 117</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 210</td>
<td>General Physics I or</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220</td>
<td>Physics for Science and Engineering</td>
<td>4-5</td>
</tr>
<tr>
<td>CHEM 211</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 212</td>
<td>Experimental General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 213</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 214</td>
<td>Experimental General Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 215</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 217</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 218</td>
<td>Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
</tbody>
</table>

*Students may choose LS 401, Biophysical Principles (3 credit hours), as an alternative to PHYS 220. A minimum of 120 credit hours is required, and 36 of these must be at the junior/senior level. Electives may be taken from any area once other degree requirements have been met.

CELLULAR AND MOLECULAR BASIS OF HEALTH AND DISEASE EMphasis

This instructional program fully prepares individuals for admission to a professional school in medicine, including allopathic, osteopathic or podiatric medicine programs. By completing the requirements of the bachelor’s of science in biology with the cellular and molecular basis of health and disease emphasis, students will complete all of the minimum prerequisites and the upper level biology electives which are highly recommended by most medical schools.

The courses selected provide a foundation of knowledge in modern cellular and molecular biology, essential for understanding medical science. The curriculum of general education and biology majors courses, combined with the mathematics, chemistry and physics components, provides the background essential to understanding the latest diagnostic and treatment technologies.

General education requirements are the same as for all students seeking a bachelor's degree in biology. Completion of the emphasis requirements will be noted on the UMKC transcript. Through proper planning with a School of Biological Sciences adviser, biology majors can use their electives and general education requirements to complete the healing and humanities minor.

A. Biology course requirements

1. Core courses (17 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 104</td>
<td>General Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 202</td>
<td>General Biology I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 312</td>
<td>Basic Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Emphasis course requirements (15 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 313</td>
<td>Introduction to Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 313L</td>
<td>Lab in Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 313R</td>
<td>Molecular Biology and Genetic Engineering</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 409</td>
<td>Senior Seminar (WI)</td>
<td>3</td>
</tr>
</tbody>
</table>

LSPHYS 316    | Principles of Physiology                          | 3     |
LSCHEM 317    | Microbiology                                      | 3     |
LSBIOC 720    | Molecular Biology and Genetic Engineering          | 3     |
LSMCRB 313L   | or Lab in Developmental Biology                   | 3     |
LSMCRB 313R   | or Molecular Biology                              | 3     |
LSMCRB 313    | or Developmental Biology                          | 3     |
LSMCRB 313    | or Molecular Biology                              | 3     |
3. Laboratory course requirements (minimum of 5 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSNCRB 316H</td>
<td>3</td>
</tr>
<tr>
<td>Elective (Choose at least 2 credit hours from the following)</td>
<td></td>
</tr>
<tr>
<td>BICL 104L or</td>
<td></td>
</tr>
<tr>
<td>or Lab in Microbiology</td>
<td></td>
</tr>
<tr>
<td>BICL 251L</td>
<td>3</td>
</tr>
<tr>
<td>or Genetics &amp; Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BICL 251L</td>
<td></td>
</tr>
<tr>
<td>or Lab in Histology and</td>
<td></td>
</tr>
<tr>
<td>Cellular Ultrastructure</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360L or</td>
<td></td>
</tr>
<tr>
<td>or Lab in Biochemistry</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 360WL</td>
<td>3</td>
</tr>
<tr>
<td>Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>LSANAT 118L</td>
<td>2</td>
</tr>
<tr>
<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</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BICL 498H</td>
<td>3</td>
</tr>
<tr>
<td>Critical Analysis of</td>
<td></td>
</tr>
<tr>
<td>Biological Issues</td>
<td></td>
</tr>
<tr>
<td>LS 490H</td>
<td>3</td>
</tr>
<tr>
<td>Senior Seminar</td>
<td></td>
</tr>
<tr>
<td>LS 490H</td>
<td>1-3</td>
</tr>
<tr>
<td>Undergraduate Research</td>
<td></td>
</tr>
<tr>
<td>LS 490H</td>
<td>1-3</td>
</tr>
<tr>
<td>Special Topics</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- or 400-level. A minimum of 21 credit hours of biology courses must be taken from the School of Biological Sciences. The Microbiology laboratory course must be writing intensive. The UM Biology GPA must be at least 2.0.

B. Physical sciences and mathematics requirements

All of the following courses are required. A grade of C- or better is required in each course used to fulfill these requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210</td>
<td>4</td>
</tr>
<tr>
<td>or Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 211 or</td>
<td></td>
</tr>
<tr>
<td>or Calculus II or</td>
<td></td>
</tr>
<tr>
<td>STAT 202 or</td>
<td>3-4</td>
</tr>
<tr>
<td>or Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>PHYS 220 or</td>
<td></td>
</tr>
<tr>
<td>or General Physics I or</td>
<td></td>
</tr>
<tr>
<td>or Engineering I</td>
<td>4-5</td>
</tr>
<tr>
<td>PHYS 220 or</td>
<td></td>
</tr>
<tr>
<td>or General Physics II or</td>
<td></td>
</tr>
<tr>
<td>or Engineering II</td>
<td>4-5</td>
</tr>
<tr>
<td>CHEM 210</td>
<td>4</td>
</tr>
<tr>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 311</td>
<td>4</td>
</tr>
<tr>
<td>Experimental General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 275</td>
<td>4</td>
</tr>
<tr>
<td>General Chemistry II</td>
<td></td>
</tr>
<tr>
<td>CHEM 275</td>
<td>4</td>
</tr>
<tr>
<td>Experimental General Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 275</td>
<td>3</td>
</tr>
<tr>
<td>Organic Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 275</td>
<td>3</td>
</tr>
<tr>
<td>Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 275</td>
<td>3</td>
</tr>
<tr>
<td>Organic Chemistry II</td>
<td></td>
</tr>
<tr>
<td>CHEM 275</td>
<td>1</td>
</tr>
<tr>
<td>Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
</tbody>
</table>

*Students may choose LS 491, Biophysical Principles (3 credit hours), as an alternative to PHYS 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.

PRE-DENTISTRY CONCENTRATION

This instructional program fully prepares individuals for admission to a professional school in dentistry. By completing the requirements of the bachelor’s of science in biology with the pre-dentistry concentration, students will complete all of the minimum prerequisites and upper level electives suggested by dental schools across the United States. The courses selected provide a foundation of knowledge in modern dentistry, essential for understanding dental science. The curriculum of general education and biology majors courses, combined with the mathematics, chemistry and physics components, provides the background essential to understanding the latest diagnostic and treatment technologies.

General education requirements are the same as for all students seeking a bachelor’s degree in biology. Through proper planning with a School of Biological Sciences adviser, biology majors can use their elective general education requirements to complete the healing and humanities minor.

A. Biology course requirements

1. Core courses (17 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BICL 104</td>
<td>3</td>
</tr>
<tr>
<td>General Biology I</td>
<td></td>
</tr>
<tr>
<td>BICL 251L</td>
<td>3</td>
</tr>
<tr>
<td>General Biology I</td>
<td></td>
</tr>
<tr>
<td>BICL 251L</td>
<td>1</td>
</tr>
<tr>
<td>General Biology II</td>
<td></td>
</tr>
<tr>
<td>BICL 251L</td>
<td>3</td>
</tr>
<tr>
<td>General Biology II</td>
<td></td>
</tr>
<tr>
<td>BICL 251H</td>
<td>3</td>
</tr>
<tr>
<td>Cell Biology</td>
<td></td>
</tr>
<tr>
<td>BICL 271</td>
<td>3</td>
</tr>
<tr>
<td>Genetics</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 360L</td>
<td>3</td>
</tr>
<tr>
<td>Basic Biochemistry</td>
<td></td>
</tr>
</tbody>
</table>

2. Concentration course requirements (14 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSNCRB 316</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Physiology</td>
<td></td>
</tr>
<tr>
<td>LSNCRB 375</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BICL 243L</td>
<td>3</td>
</tr>
<tr>
<td>Developmental Biology</td>
<td></td>
</tr>
<tr>
<td>BICL 275</td>
<td>2</td>
</tr>
<tr>
<td>Histology</td>
<td></td>
</tr>
<tr>
<td>LSNCRB 351 or</td>
<td>2</td>
</tr>
<tr>
<td>Immunology or</td>
<td></td>
</tr>
<tr>
<td>LSBIOC 360L</td>
<td>3</td>
</tr>
<tr>
<td>Molecular Biology and</td>
<td></td>
</tr>
<tr>
<td>Genetic Engineering</td>
<td></td>
</tr>
</tbody>
</table>

3. Required laboratory courses (BICL 251L must be taken using the writing intensive option.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BICL 251L</td>
<td>3</td>
</tr>
<tr>
<td>Laboratory in Histology</td>
<td></td>
</tr>
<tr>
<td>or Cellular Ultrastructure (WI)</td>
<td>3</td>
</tr>
<tr>
<td>LSANAT 118L</td>
<td>2</td>
</tr>
<tr>
<td>Introductory Anatomy Laboratory</td>
<td>2</td>
</tr>
</tbody>
</table>

4. Biology Synthesis requirement (Choose a total of 3 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BICL 498H</td>
<td>3</td>
</tr>
<tr>
<td>Critical Analysis of</td>
<td></td>
</tr>
<tr>
<td>Biological Issues</td>
<td></td>
</tr>
<tr>
<td>LS 490H</td>
<td>3</td>
</tr>
<tr>
<td>Senior Seminar</td>
<td></td>
</tr>
<tr>
<td>LS 490H</td>
<td>1-3</td>
</tr>
<tr>
<td>Undergraduate Research</td>
<td></td>
</tr>
<tr>
<td>LS 490H</td>
<td>1-3</td>
</tr>
<tr>
<td>Special Topics</td>
<td></td>
</tr>
</tbody>
</table>

5. Students must complete additional biology majors coursework to total 42 credit hours of biology courses with grades of C- or better. At least 26 of these must be at the 300- or 400-level. A minimum of 21 credit hours of biology courses must be taken from the School of Biological Sciences. The UM biology GPA must be at least 2.0.

B. Physical sciences and mathematics requirements

All of the following courses are required. A grade of C- or better is required in each course used to fulfill these requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210</td>
<td>4</td>
</tr>
<tr>
<td>or Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 211 or</td>
<td></td>
</tr>
<tr>
<td>or Calculus II or</td>
<td></td>
</tr>
<tr>
<td>STAT 202 or</td>
<td>3-4</td>
</tr>
<tr>
<td>or Elementary Statistics</td>
<td></td>
</tr>
<tr>
<td>PHYS 220 or</td>
<td></td>
</tr>
<tr>
<td>or General Physics I or</td>
<td></td>
</tr>
<tr>
<td>or Engineering I</td>
<td>4-5</td>
</tr>
<tr>
<td>PHYS 220 or</td>
<td></td>
</tr>
<tr>
<td>or General Physics II or</td>
<td></td>
</tr>
<tr>
<td>or Engineering II</td>
<td>4-5</td>
</tr>
</tbody>
</table>
BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

In the B.S. in medical technology program, the typical student spends the first three years completing the general education and basic science course requirements for the baccalaureate degree on the UMKC campus.

A final 12-month course of clinical studies is completed in an affiliated hospital program accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Affiliated clinical programs are located at North Kansas City Hospital and Saint Luke’s Hospital. Admission into the medical technology degree program does not ensure acceptance by an affiliated hospital.

Degree Requirements

In addition to the general education requirements outlined previously, students pursuing a B.S. degree in medical technology must meet the following requirements:

A. Biology Course Requirements

A total of 32 credit hours of biology courses must be completed with grades of C- or better and at least 16 of these must be at the 300/400-level. Ten credit hours from the 30-credit-hour clinical year is counted toward the 42 credit hours required for a B.S. degree. A minimum of 16 credit hours of biology courses must be taken at the School of Biological Sciences.

1. The following courses are required:

<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>BIOL 206</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 341</td>
<td>3</td>
</tr>
<tr>
<td>LSPHYS 316</td>
<td>3</td>
</tr>
<tr>
<td>LSMCRB 313</td>
<td>3</td>
</tr>
<tr>
<td>LSMCRB 313L</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360</td>
<td>3</td>
</tr>
<tr>
<td>LS 401</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</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 328WL</td>
<td>3</td>
</tr>
<tr>
<td>LSANAT 118</td>
<td>3</td>
</tr>
<tr>
<td>LSMCRB 313</td>
<td>3</td>
</tr>
<tr>
<td>LSMCRB 431</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 430</td>
<td>3</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</td>
<td>4</td>
</tr>
<tr>
<td>MATH 310</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 210</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 250</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 221</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 221L</td>
<td>1</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 fulfills the Biology synthesis requirement, and the Major Field Assessment Test is waived as the student is off campus their final year.

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.

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):
2. One of the following biology laboratory courses (minimum 2 credit hours).

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 312L or Lab. in Developmental Biology, BIOL 312WL</td>
<td>Genetics and Cell Biology</td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td>LSMCRB 313L or Laboratory in Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>LSMCRB 313WL</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 328L or Laboratory in Histology and Cellular Ultrastructure</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 328WL</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360L or Laboratory in Biochemistry and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>LSBIOC 360WL</td>
<td>3</td>
</tr>
</tbody>
</table>

3. Biology Synthesis requirement (Choose a total of 3 credit hours.)

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 409WI</td>
<td>Critical Analysis of Biological Issues (WI)</td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td>LS 490WI</td>
<td>Senior Seminar (WI)</td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td>LS 499</td>
<td>Undergraduate Research</td>
</tr>
<tr>
<td>1-3</td>
<td></td>
</tr>
<tr>
<td>LS 497</td>
<td>Special Topics</td>
</tr>
<tr>
<td>1-3</td>
<td></td>
</tr>
</tbody>
</table>

4. Students must complete additional biology majors coursework to total at least 38 credit hours of biology courses with grades of C- or better. At least 24 of these must be at the 300- or 400-level. One of these courses must be writing intensive. A minimum of 21 credit hours of biology courses must be taken from the School of Biological Sciences. The UM Biology GPA must be at least 2.0.

B. Additional Science and Mathematics Course Requirements

The following courses must be completed with grades of C- or better:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210 or Calculus I</td>
<td>3-4</td>
</tr>
<tr>
<td>STAT 235</td>
<td>Elementary Statistics</td>
</tr>
<tr>
<td>PHYS 210</td>
<td>General Physics I</td>
</tr>
<tr>
<td>CHEM 211</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHEM 211L</td>
<td>Experimental General Chemistry I</td>
</tr>
<tr>
<td>CHEM 212R</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>CHEM 212LR</td>
<td>Experimental General Chemistry II</td>
</tr>
<tr>
<td>CHEM 320</td>
<td>Elementary Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 320L</td>
<td>Experimental Organic Chemistry</td>
</tr>
</tbody>
</table>

Business and Public Adminstration, Henry W.Bloch School of

BUSINESS AND PUBLIC ADMINISTRATION, HENRY W. BLOCH SCHOOL OF

- Bachelor of Business Administration
- Bachelor of Science in Accounting
- Business Minor

BACHELOR OF BUSINESS ADMINISTRATION

Courses for the B.B.A. program are listed below. All students must complete the core curriculum and choose one of four emphasis areas:

- Enterprise management
- Entrepreneurship
- Finance
- Marketing

Prior to enrolling in any course, students must ensure they have completed the necessary prerequisites. Seniors in the B.B.A. program may begin work on the MBA degree if pre-approved by the Bloch School based on their formal application to the MBA program.

Core B.B.A. Curriculum (39 hours)

- DSOM 309 Intermediate Business Statistics
- DSOM 326 Production/Operations Management
- ECON 302 Microeconomic Analysis
- ENT 460 Creating the Enterprise
- FIN 332 Financial Management
- MGT 324 Effective Business Communication
- MGT 325 Effective Business Research and Presentations
- MGT 326 Legal, Ethical and Regulatory Environment of Business
- MGT 331 Understanding the Individual in the Organization
- MGT 332 Organizational Effectiveness and Leadership
- MGT 334 Strategic Management
- MIS 402 Information Management
- MKT 321 Marketing Concepts

General Electives (9 hours)

Emphasis Areas (15 hours)

Enterprise Management

- DSOM 346 Management Analysis
- MGT 322 Managing Human Capital
- MGT 320 International Management

Plus two courses selected from the following:

- DSOM 311 Quality and Process Improvement
- ENT 322 Managing the Growing Business
- FIN 310 Financial Statement Analysis
- MIS 315 Managing the Information Systems Resource
- MKT 322 Market Analysis

Entrepreneurship

- ENT 215 Introduction to Entrepreneurship
ENT 312 Creating New Ventures
ENT 322 Managing the Growing Business

Plus one of the following tracks:

- Track 1: Entrepreneurship for Science and Technology
  - ENT 341 Technology and New Ventures
  - ENT 361 Product Innovation Management
- Track 2: Family Businesses and Franchising
  - ENT 344 Small Business Entrepreneurship
  - One entrepreneurship elective from the list below.
- Track 3: Entrepreneurial Strategy
  - Two entrepreneurship electives from the list below.

Entrepreneurship Electives:
- ENT 341 Technology and New Ventures
- ENT 355 Product Innovation and Management
- ENT 361 Small Business and Entrepreneurship
- ENT 375 Venture Capital Finance and Investment
- ENT 376 Corporate Entrepreneurship
- ENT 377 Entrepreneurial Marketing
- ENT 378 Entrepreneurial Selling and Sales Force Management

Finance
- FIN 340 Financial Markets and Institutions
- FIN 345 Investments
- FIN 346 Advanced Corporate Finance

Plus two courses selected from the following:
- ENT 341 Venture Capital Finance and Investment
- FIN 347 Financial Statement Analysis
- FIN 348 Debt Instruments and Markets
- FIN 349 Commercial Bank Management

Marketing
- MKT 335 Consumer Behavior
- MKT 336 Market Analysis
- MKT 337 Marketing Strategy

Plus two courses selected from the following:
- EN 341 Product Innovation Management
- MKT 341 Sales and Promotion Strategies
- MKT 342 Internet/Direct Marketing
- MKT 343 Services Marketing

Note: Students should ensure that prerequisites are taken in the proper sequence. Prerequisites and program requirements may change. Consult the Bloch School Web site at http://www.bloch.umkc.edu/ for current information.

BACHELOR OF SCIENCE IN ACCOUNTING

Students seeking an accounting career have the option of selecting a four-year B.S. in accounting degree program or a unified five-year B.S./M.S. in accounting degree (see M.S. in accounting requirements). These programs cover the subject matter that is tested on the Uniform Certified Public Accountants (CPA) Examination and other certification examinations. Seniors in the B.S. in accounting program may begin work on the master of science in accounting degree if pre-approved by the Department of Accountancy based on their formal application to the master of science in accounting program. Courses for the B.S. in accounting program are listed below, and must be completed by all students in the degree program.

**Junior Year - First Semester**
- ACCTG 307 Cost Management 3
- ACCTG 308 Intermediate Accounting I 3
- DSOM 309 Intermediate Business Statistics 3
- MGT 301 Effective Business Communication 3
- Economics Elective (ECON 301, 302, or 331) 3

**Junior Year - Second Semester**
- ACCTG 311 Intermediate Accounting II 3
- ACCTG 315 Accounting Systems and Controls 3
- DSOM 316 Marketing Concepts 3
- DSOM 317 Production/Operations Management 3
- MGT 317 Understanding the Individual in the Organization 3
- MGT 318 Effective Business Research and Presentations 3

**Senior Year - First Semester**
- ACCTG 405 Auditing 3
- ACCTG 410 Federal Income Taxation 3
- FIN 311 Financial Management 3
- MGT 320 Legal, Ethical and Regulatory Environment of Business 3
- ACCTG 420 Advanced Accounting 3

**Senior Year - Second Semester**
- ACCTG 421 Advanced Tax 3
- ACCTG 422 Governmental/Not-for-Profit Accounting 3
- MGT 322 Law of Commercial Transactions 3
- MGT 424 Strategic Management 3
- ENT 460 Creating the Enterprise 3
- Approved Finance Elective 3

Note: Students should ensure that prerequisites are taken in the proper sequence. Prerequisites and program requirements may change. Consult the Bloch School Web site at http://www.bloch.umkc.edu/ for current information.

BUSINESS MINOR

Students interested in business may complete 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.

The minor consists of the following coursework and is subject to the student satisfying all applicable prerequisites.

Required for admission to the minor:
- MIS 201: Computer Applications for Business 3
- ACCTG 210: Financial Accounting 3

Required courses:
- MKT 324: Marketing Concepts 3
- FIN 325: Financial Management 3
MGT 330: Understanding the Individual in the Organization 3

Business elective:
One 300/400 level course OR MGT 315: Introduction to Entrepreneurship 3

Total hours for minor: 18

Students must achieve a minimum GPA of 2.25 in all Bloch School courses. Transfer students with equivalent course credit will be required to take a more advanced course in that same area. Students are limited to 30 hours of coursework in the Bloch School. All coursework toward the minor must be completed at UMKC.

Students interested in the minor should contact staff in the Bloch School Student Services Office, room 115.

Computing and Engineering, School of

COMPUTING AND ENGINEERING, SCHOOL OF

- Bachelor of Science in Civil Engineering
  - Fast Track Civil Engineering Program
  - Bachelor of Science in Mechanical Engineering
  - Fast Track Mechanical Engineering Program
  - Bachelor of Information Technology
  - Fast Track Computer Science Program
  - Minor in Computer Science
  - Bachelor of Science in Electrical and Computer Engineering
  - Fast Track Electrical and Computer Engineering Program

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

The civil engineering curriculum requires a minimum of 126 hours of coursework and satisfies the UMKC General Education Matrix.

Freshman Year

Fall Semester
- MATH 210 (a) Calculus I 4
- CHEM 211 General Chemistry 5
- ME 130 Engineering Graphics 3
- ME 111 Essential Engineering 3
- Total Hours 15

Spring Semester
- MATH 220 Calculus II 4
- PHYS 240 Engineering Physics I 5
- COMS 110 Fund. Eff. Speaking and Listening 3
- ENGL 225 (b) English II 3
- Total Hours 15

Sophomore Year

Fall Semester
- MATH 250 Calculus III 4
- PHYS 250 Engineering Physics II 5
- CE 211 The Engineering Enterprise 3
- ME 219 Computer Programming for Engineers 3
- Total Hours 18

Spring Semester
- MATH 345 Ordinary Differential Equations 4
- CE 276 Strength of Materials 3
- ME 220 Electric Circuits 3
- ME 299 Engineering Thermodynamics 3
- ME 285 Engineering Dynamics 3
- Total Hours 16

Junior Year

Fall Semester
- CE 311 The Technical Entrepreneur 3
- CE 315 Engr. Statistics and Computation 3
- CE 321 Structural Analysis 4
- CE 335 Soil Mechanics 3
- CE 351 Fluid Mechanics 3
- Total Hours 16

Spring Semester
- CE 378WI (c) CE Materials 3
- CE 323 Steel Design 3
- CE 355WI (c) Water Resources 5
- Constitution Req: PolSci 310/History 101/102 3
- Total Hours 16

Senior Year

Fall Semester
- CE 411 Systems Design I 2
- CE 421 Reinforced Concrete 3
CE 481 Highway and Traffic Engineering 3
CE Electives(d) 6
Total Hours 14

Spring Semester Hours
CE 412WI Systems Design II 3
CE Electives(d) 9
General Education(e) 3
Total Hours 15

(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) 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 2XX level or above.

GENERAL EDUCATION CURRICULUM FOR TRANSFER STUDENTS

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 UMKC's 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 Department Office at (816) 235-5550.

STUDENT LEARNING OUTCOMES

Engineering programs must demonstrate that their students attain:

- An ability to apply knowledge of mathematics, science, and engineering.
- An ability to design and conduct experiments, as well as to analyze and interpret data.
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- An ability to function on multi-disciplinary teams.
- An ability to identify, formulate, and solve engineering problems.
- An understanding of professional and ethical responsibility.
- An ability to communicate effectively.
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- A recognition of the need for, and an ability to engage in life-long learning.
- A knowledge of contemporary issues.
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

FAST TRACK CIVIL ENGINEERING PROGRAM

The civil engineering curriculum requires a total of 156 hours of graduate and undergraduate coursework and satisfies the UMKC General Education Matrix.

First Year

Fall Semester Hours
MATH 210(a) Calculus I 4
CHEM 211 General Chemistry 5
ME 130 Engineering Graphics 3
ME 111 Essential Engineering 3
Total Hours 15

Spring Semester Hours
MATH 220 Calculus II 4
PHYS 240 Engineering Physics I 5
COMS 110 Fund. Eff. Speaking and Listening 3
ENGL 225 English II 3
Total Hours 15

Second Year

Fall Semester Hours
MATH 250 Calculus III 4
PHYS 250 Engineering Physics II 5
CE 211 The Engineering Enterprise 3
ME 219 Computer Programming for Engineers 3
CE 275 Engineering Statics 3
Total Hours 18

Spring Semester Hours
MATH 345 Ordinary Differential Equations 4
CE 276 Strength of Materials 3
ME 225 Engineering Dynamics 3
ME 226 Engineering Thermodynamics 3
ME 220 Electric Circuits 3
Total Hours 16

Third Year

Fall Semester Hours
CE 311 The Technical Entrepreneur 3
CE 319 Engr. Statistics and Computation 3
CE 321 Structural Analysis 4
CE 322 Soil Mechanics 3
CE 326 Fluid Mechanics 3
Total Hours 16

Spring Semester Hours
CE 351 Steel Design 3
CE 355WI Water and Wastewater Eng. 3
CE 378WI CE Materials 3
Constitution Req: PolSci 104/105/360R 3
Total Hours 17

Summer Semester Hours
Graduate Credit Enrollment(f) 6
Total Hours 6

Fourth Year
Fall SemesterHours
CE 411 Systems Design I 2
CE 422 Reinforced Concrete 3
CE 481 Highway and Traffic Engineering 3
CE Electives(d) 6
Total Hours14

Spring SemesterHours
CE 412WI(c) Systems Design II 3
CE Electives(d) 9
General Education(e) 3
Total Hours15

Summer SemesterHours
Graduate Credit Enrollment(f) 6
Total Hours6

Fifth Year
Fall SemesterHours
Graduate Credit Enrollment(f) 9
Total Hours9

Spring SemesterHours
Graduate Credit Enrollment(f) 9
Total Hours9

(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) 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 2XX level or above.
(f) Graduate credit enrollment has degree specific requirements and faculty adviser will work out details of the program in consultation with the student.

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

The Mechanical Engineering curriculum requires a minimum of 126 hours of coursework and satisfies the UMKC General Education Matrix.

Freshman Year
Fall SemesterHours
MATH 210(a) Calculus I 4
CHEM 211 General Chemistry 5
ME 130 Engineering Graphics 3
ME 111 Essential Engineering 3
Total Hours15

Spring SemesterHours
MATH 220 Calculus II 4
PHYS 240 Engineering Physics I 5
COMS 110 Eff. Speaking and Listening 3
ENGL 225 English II 3
Total Hours15

Sophomore Year
Fall SemesterHours
MATH 250 Calculus III 4
PHYS 250 Engineering Physics II 5
CE 275 Engineering Statics 3
ME 219 Computer Programming for Engineers 3
ME 211 The Engineering Enterprise 3
Total Hours18

Spring SemesterHours
MATH 345 Ordinary Differential Equations 4
CE 276 Strength of Materials 3
ME 220 Electric Circuits 3
ME 285 Engineering Thermodynamics 3
ME 299 Engineering Dynamics 3
Total Hours16

Junior Year
Fall SemesterHours
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 Hours16

Spring SemesterHours
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 Hours15

Senior Year
Fall SemesterHours
ME 415 Feedback Control Systems 3
ME 456WI(c) Mech. Component Design 3
ME Electives(d) 6
Constitution Req: PolSci 210/Hist 101/102 3
Total Hours15

Spring SemesterHours
ME 311 The Technical Entrepreneur 3
ME 390(c) Mechanical Design Synthesis 4
ME Energy Systems Design Elective(s) 3
ME Elective(d) 3
General Education(f) 3
Total Hours16

(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.
**STUDENT LEARNING OUTCOMES**

Engineering programs must demonstrate that their students attain:

- An ability to apply knowledge of mathematics, science, and engineering.
- An ability to design and conduct experiments, as well as to analyze and interpret data.
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- An ability to function on multi-disciplinary teams.
- An ability to identify, formulate, and solve engineering problems.
- An understanding of professional and ethical responsibility.
- An ability to communicate effectively.
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- A recognition of the need for, and an ability to engage in life-long learning.
- A knowledge of contemporary issues.
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

**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 UMKC’s 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 Department Office at (816) 235-5550.

**FAST TRACK MECHANICAL ENGINEERING PROGRAM**

The mechanical engineering curriculum requires a total of 156 hours of graduate and undergraduate coursework and satisfies the UMKC General Education Matrix.

**First Year**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 211(a) Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 200 General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>ME 111 Essential Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ME 130 Engineering Graphics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 211 Engineering Physics I</td>
<td>5</td>
</tr>
<tr>
<td>COMS 110 Fund. Eff. Speaking and Listening</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 225 English II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 250 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 212 Engineering Physics II</td>
<td>5</td>
</tr>
<tr>
<td>CE 220 Engineering Statics</td>
<td>3</td>
</tr>
<tr>
<td>ME 211 The Engineering Enterprise</td>
<td>3</td>
</tr>
<tr>
<td>ME 219 Computer Programming for Engineers</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 345 Ordinary Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>CE 220 Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>ME 220 Engineering Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 225 Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 220 Electrical Circuits</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**Third Year**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 415 Engr. Computation &amp; Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ME 417 Engr. Materials w/Lab</td>
<td>4</td>
</tr>
<tr>
<td>ME 420 Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ME 440 Inst. &amp; Measurement Lab I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 446 Computer-Aided Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ME 447 Inst. and Measurement Lab II</td>
<td>3</td>
</tr>
<tr>
<td>ME 450 Manufacturing Methods</td>
<td>3</td>
</tr>
<tr>
<td>ME 451 System Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 451 Heat and Mass Transfer</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Summer Semester**

<table>
<thead>
<tr>
<th>Graduate Credit Enrollment(a)</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 415 Feedback Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>ME 450 Mech. Component Design</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>3</strong></td>
</tr>
</tbody>
</table>
BACHELOR OF INFORMATION TECHNOLOGY

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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101</td>
<td>Prob. Solv. &amp; Prac I</td>
</tr>
<tr>
<td>CS 191</td>
<td>Discrete Structures I</td>
</tr>
<tr>
<td>CS 201</td>
<td>Prob. Solv &amp; Prac II</td>
</tr>
<tr>
<td>CS 281</td>
<td>Intro to Computer Architecture</td>
</tr>
<tr>
<td>CS 291</td>
<td>Discrete Structures II</td>
</tr>
<tr>
<td>CS 304</td>
<td>Ethics and Professionalism</td>
</tr>
<tr>
<td>CS 352</td>
<td>Data Structures &amp; Algorithms</td>
</tr>
<tr>
<td>CS 431</td>
<td>Intro to Operating Systems</td>
</tr>
<tr>
<td>CS 441</td>
<td>Prog. Lang. Design &amp; Implementation</td>
</tr>
<tr>
<td>CS 470</td>
<td>Intro to Database Mgmt. Systems</td>
</tr>
<tr>
<td>CS 471</td>
<td>Database Design, Implementation &amp; Validation</td>
</tr>
<tr>
<td>IT 222</td>
<td>Intro. to Computing Resources Admin.</td>
</tr>
<tr>
<td>IT 321</td>
<td>Multimedia Production &amp; Concepts</td>
</tr>
<tr>
<td>IT 451</td>
<td>Advanced Programming Specialty Elective*</td>
</tr>
<tr>
<td>IT 452</td>
<td>Course Specialty I*</td>
</tr>
<tr>
<td>IT 453</td>
<td>Course Specialty II*</td>
</tr>
</tbody>
</table>

* Networking (CS 420, 421, or 425) or Programming (IT 453, 454, 455, or 456)

General Education Synthesis (3 Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 451</td>
<td>Software Engineering</td>
</tr>
</tbody>
</table>

Anatomy of Business (18 Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actg 210</td>
<td>Principles of Accounting</td>
</tr>
<tr>
<td>Actg 211</td>
<td>Intro. to Managerial Accounting</td>
</tr>
<tr>
<td>MGT 201</td>
<td>Elements of Marketing Concepts</td>
</tr>
<tr>
<td>GDCM 324</td>
<td>Operations Management</td>
</tr>
</tbody>
</table>

Business Electives:

(Choose two of the following)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 306</td>
<td>MGT 330</td>
</tr>
<tr>
<td>FIN 325</td>
<td>ENT 215</td>
</tr>
</tbody>
</table>

Life and Physical Sciences (8-10 Hours)

One Life Science

One Physical Science

To include at least one laboratory component

Mathematics (7 Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH 235</td>
<td>Statistics</td>
</tr>
</tbody>
</table>

Social and Behavioral Sciences (9 Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101, 102, or POLSC 210</td>
<td></td>
</tr>
<tr>
<td>ECON 202</td>
<td>Introduction to Economics II</td>
</tr>
</tbody>
</table>

Elective: Criminal Justice, Geography, Economics, History, Political Science, Psychology, Social Science or Sociology

Communicating (9 Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110</td>
<td>Freshman English I</td>
</tr>
<tr>
<td>ENGL 225</td>
<td>Freshman English II</td>
</tr>
<tr>
<td>COMS 110</td>
<td>Fundamentals of Speech</td>
</tr>
</tbody>
</table>

Humanities and Fine Arts (9 Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 222</td>
<td>Foundations of Logic &amp; Scientific Method</td>
</tr>
</tbody>
</table>

Prerequisite: Sophomore standing

Elective: English, Communication Studies, Philosophy or Foreign Language

Elective: Art/Art History, Conservatory or Theater

Internship Requirement (6 Hours)

General Electives (9 Hours)

Total Minimum Requirement: 120 hours
STUDENT LEARNING OUTCOMES

Prior to graduation, students will develop a sound analytical mindset based in a foundation of algorithmic principles and computer science theories. They will demonstrate a basic understanding of the necessary technologies and tools that pertain to the construction of software processes, components, or programs of varying complexity to solve problems. They will demonstrate the ability to develop and deploy computer systems in a user oriented environment, and work effectively on teams to manage system development projects. They will understand their professional, ethical and social responsibilities and communicate effectively with a range of audiences. They will recognize the need for, and will be able to engage in, continuing professional development.

In particular, they will apply the core technologies from computer science and information technology when solving problems in such areas as:

- Software development
- Network operation and administration
- Digital media
- Database administration
- Web engineering

They will develop an in-depth understanding of the business context where these technologies will be employed and will have appropriate business experience through the internship program.

SPECIALITY AREAS

B.I.T. students may take courses from the following specialty areas:

**Media Design**
- IT 222

**Networking**
- IT 321, CS 429, CS 421 or CS 490NA

**Programming**
- IT 350, CS 461, CS 423, CS 456 or CS 475

Other courses are routinely available as special topics courses, such as IT 490 IT. Please see your adviser or check the actual course offerings.

FOUR YEAR PROGRAM SAMPLE

The following sample four-year program, designed for incoming freshmen, illustrates the careful planning necessary to complete the B.I.T. degree. All students are urged to construct such a four-year plan, in consultation with a B.I.T. degree adviser, as early as possible. While subsequent changes are likely, maintaining a four-year plan provides a coherent path toward the degree.

Courses marked (b) below meet B.I.T. requirements and those marked (g) below meet UMKC general education requirements.

**First Semester Hours**
- CS 101 (b) Problem Solv. & Programming 3
- CS 191 (b) Discrete Structures I 3
- ENGL 110 (g) Freshman English I 3
- COMS 110 (g) Fundamentals of Eff. Speaking 3
- MATH 210 (b) Calculus I 4

Total Hours: 16

**Second Semester Hours**
- CS 201 (b) Problem Solv. & Programming II 3
- ACCT 210 (b) Principles of Accounting 3
- Constitution Requirement (g) 3
- CS 291 (b) Discrete Structures II 3
- IT 222 (b) Multimedia Prod. and Concepts 3

Total Hours: 15

**Third Semester Hours**
- CS 281 (b) Intro. to Computer Architecture 3
- ACCT 211 (b) Managerial Accounting 3
- MATH 235 (b) Statistics 3
- ENGL 225 (g) English II 3
- Social Science Elective (g) 3

Total Hours: 15

**Fourth Semester Hours**
- WEPT 0
- CS 352 (b) Data Structures and Algorithms 3
- PHIL 222 (g) Foundations of Logic 3
- MGT 477 (b) Elements of Marketing Concepts 3
- IT 321 (b) Introduction to Computing Resources Administration 3
- General Elective (g) 3

Total Hours: 15

**Fifth Semester Hours**
- CS 304WI (b) Ethics and Professionalism 3
- CS 431 (b) Introduction to Operating Systems 3
- IT 350 (b) Obj. Oriented Soft. Development 3
- Life Sciences Elective (g) 4
- Humanities and Fine Arts Elective (g) 3

Total Hours: 16

**Sixth Semester Hours**
- CS 441 (b) Programming Languages - Design and Implementation 3
- ECON 306 (b) Operations Management 3
- ECON 307 (g) Introduction to Economics II 3
- General Elective (g) 3
- General Elective (g) 3

Total Hours: 15

**Seventh Semester Hours**
- CS 470 (b) Intro. to Database Management 3
- CS 471 (b) Database Design, Impl. & Validation 4
- Physical Science Elective (g) 4
- IT Elective (b) 3
- CS 411 (b) Internship 3
- Business Elective (b) 3

Total Hours: 16

**Eighth Semester Hours**
- IT Elective (b) 3
- Business Elective (b) 3
- CS 431 (b) Software Architecture 3
# Bachelor of Science/Bachelor of Arts in Computer Science

The requirements for the B.A. in Computer Science are listed in column **BA**, those for the B.S. in Computer Science are listed in column **BS**.

## Computer Science BA/BS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</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>CS 201</td>
<td>Prob. Solv. &amp; Prog. II</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 281</td>
<td>Intro to Computer Arch.</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 282</td>
<td>Assembler Language Prog.</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 291</td>
<td>Discrete Structures II</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 304</td>
<td>Ethics and Professionalism</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 352</td>
<td>Data Structures &amp; Algorithms</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 393</td>
<td>Numerical Analysis &amp; Symbolic Computation</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>CS 421</td>
<td>Found. of Data Networks</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>CS 420</td>
<td>Introductory Network Models and Interconnections</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>CS 431</td>
<td>Intro. to Operating Systems</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>CS 441</td>
<td>Prog. Lang. Design &amp; Impl.</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 470</td>
<td>Intro. Database Mgmt. Systems</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>CS 471</td>
<td>Database Design, Implementation and Validation</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>CS 481</td>
<td>Advanced Computer Arch.</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CS 493</td>
<td>Advanced Electives *</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>365</td>
</tr>
</tbody>
</table>

* CS regular courses numbered 400-499

## General Education Synthesis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 451</td>
<td>Software Engineering</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

## Mathematics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210</td>
<td>Calculus I</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>MATH 220</td>
<td>Calculus II</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>MATH 235</td>
<td>Calculus III</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>MATH 235</td>
<td>Elementary Statistics</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MATH 301</td>
<td>CS 394R or MATH 411</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

**Minimum Requirement:** 1115

## Communicating

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110</td>
<td>Freshman English I</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>Freshman English II</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CON 110</td>
<td>Fundamentals of Speech</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>168</td>
</tr>
</tbody>
</table>

* Minimum Requirement: 166

## Humanities and Fine Arts

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective: Engi, Comm., Phil. or Foreign Language</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective: Art/Art History, Conservatory or Theater</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Minimum Requirement:** 199

## Life and Physical Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 210</td>
<td>Physics</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 220</td>
<td>Chemistry</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 230</td>
<td>Biology</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

* Minimum Requirement: 8-13

## Social and Behavioral Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101, 102, 360, or POLSC 210</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(Meets MO constitution requirement)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two courses from at least two fields:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criminal Justice, Geography, Economics, History, Political Science, Psychology, Social Science or Sociology</td>
<td>6</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**Minimum Requirement:** 99

## Foreign Language

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRNLG 110</td>
<td>1 year H.S. study</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>FRNLG 120</td>
<td>2 years H.S. study</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Culture Course (Independent Global Env.)</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Minimum Requirement:** 11

## General Electives

Additional coursework to complete the credit hours needed for graduation

**Minimum Requirement:** 28-36 12-16

**Total Minimum Requirement:** 120

## Concentration Areas

Students pursuing the B.S. degree in Computer Science are required to take two additional advanced elective courses (at the 400 level), with which they can tailor their degree to their specific needs. Students have the option to pursue the emphasis area in Bioinformatics or to pursue one of the concentration areas of Computer and Telecommunications Networking or Software Engineering.

### Bioinformatics

The courses required for the emphasis area in Bioinformatics can be accommodated within the current plan of study, if properly chosen. They are: BIOL 108-General Biology I w/Lab, BIOL 109-General Biology II w/Lab, BIOL 202-Cell Biology, BIOL 206-Genetics, CHEM 211-General Chemistry I w/Lab, CHEM 212-General Chemistry II w/Lab, CS 490MB, MetaModels of Biology, CS 490BE-Introduction to Bioinformatics, and either CS 471-Database Design, Implementation and Validation, or CS 470-Introduction to DBMS.

### Computer and Telecommunications Networking

For the concentration in Computer and Telecommunications Networking, students may take the CS advanced electives from the following list of courses: 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, such as Network Analysis, Network Security.
For the concentration in Software Engineering, students may take the 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.

**STUDENT LEARNING OUTCOMES**

Prior to graduation, students will develop a sound analytical mindset based in a foundation of mathematics, algorithmic principles, computer organization, and computer science theories. They will use current technologies, skills and tools necessary to design and implement system components under realistic constraints to solve problems of varying complexity. They will work effectively on teams to manage system development projects. They will understand their professional, ethical and social responsibilities and communicate effectively with a range of audiences. They will recognize the need for, and are able to engage in, continuing professional development.

In particular, they will apply the core technologies from computer science when solving problems in such areas as:

- Networking
- Data structures and algorithms
- Software development and systems
- Operating Systems

They will have had an opportunity to concentrate their coursework in computer networking, software systems or bioinformatics.

**FOUR YEAR PROGRAM SAMPLE**

The following sample four-year program, designed for incoming freshmen, illustrates the careful planning necessary to complete the B.S.-C.S. degree. All students are urged to construct such a four-year plan, in consultation with a Computer Science degree adviser, as early as possible. While subsequent changes are likely, maintaining a four-year plan provides a coherent path toward the degree. Since the B.A.-C.S. degree requires a subset of courses as far as Computer Science and Mathematics are concerned, they are not shown separately.

**First Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101</td>
<td>Problem Solving &amp; Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 191</td>
<td>Discrete Structures I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110</td>
<td>Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>COMS 110</td>
<td>Fundamentals of Effective Speaking</td>
<td>3</td>
</tr>
<tr>
<td>MATH 210</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 201</td>
<td>Problem Solving &amp; Programming II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 220</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Constitution Requirement</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities and Fine Arts Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**Third Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 281</td>
<td>Intro. to Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>MATH 250</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 235</td>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 240</td>
<td>Physics for Science and Engr. I</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Fourth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 282</td>
<td>Assembler Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 291</td>
<td>Discrete Structures II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 250</td>
<td>Physics for Science and Engr. II</td>
<td>5</td>
</tr>
<tr>
<td>ENGL 225</td>
<td>English II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

**Fifth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 352</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CS 394R</td>
<td>Applied Probability</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Science Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Science Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities and Fine Arts Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Sixth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 393</td>
<td>Numerical Analysis &amp; Symbolic Computation</td>
<td>3</td>
</tr>
<tr>
<td>CS 394</td>
<td>Introduction to Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS 395</td>
<td>Ethics and Professionalism</td>
<td>3</td>
</tr>
<tr>
<td>CS 495</td>
<td>Intro. Database Management System</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Science Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Science Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Seventh Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 441</td>
<td>Programming Languages - Design and Implementation</td>
<td>3</td>
</tr>
<tr>
<td>CS 421</td>
<td>Foundations of Data Networks</td>
<td>3</td>
</tr>
<tr>
<td>CS 4xx</td>
<td>Technical elective</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

**Eighth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 451</td>
<td>Software Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CS 477</td>
<td>Advanced Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CS 4yy</td>
<td>Technical elective</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**FIVE YEAR PROGRAM SAMPLE**

The computer science curriculum requires a total of 150 hours of undergraduate and graduate coursework and satisfies the requirements for both the B.S. in CS and M.S. in CS degrees. This is a sample only, and adjustments can be made for particular situations, please see an adviser to tailor a degree program.

**First Year**

**Fall Semester**

<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>ENGL 110</td>
<td>Freshman English I</td>
<td>3</td>
</tr>
<tr>
<td>COMS 110</td>
<td>Fundamentals of Effective Speaking</td>
<td>3</td>
</tr>
<tr>
<td>CS 101</td>
<td>Problem Solving &amp; Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 191</td>
<td>Discrete Structures I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>16</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 and MATH 210 are prerequisites for CS 101, CS 191 and CS 352.

BACHELOR OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING
FOUR YEAR PROGRAM SAMPLE

STUDENT LEARNING OUTCOMES

ECE 412 Communication and Networking

Chem 211L General Chemistry I
Chem 211 General Chemistry II
Phy 250 Physics for Science and Engr. I
Phy 240 Physics for Science and Engr. II

Math 210 Calculus I
Math 220 Calculus II
Math 250 Calculus III

Electives: Art/Art History, Conservatory

Phil 222 Foundations of Logic

Social and Behavioral Sciences (9 Hours)

HIST 101, 102, 360R or POLSC 210

ECON 201 Introduction to Economics I

ECE 416 Computer and VLSI Systems

ECE 417 Logic Design Lab

Communication and Networking

ECE 412, ECE 474, ECE 476, CS 420, CS 421 or CS 422

Computer and VLSI Systems

ECE 416, ECE 424 or CS 457

Control and Power

ECE 458 or ECE 460 or ECE 466

Signal and Image Processing

ECE 458, ECE 460, ECE 466 or ECE 486

Other courses, such as special topics courses, might fall in an emphasis area provided that this is approved by the course and curriculum committee. Furthermore, qualified students might be able to take graduate level courses, see adviser. There are some other courses available when there is sufficient demand for these courses, such as ECE 489.

STUDENT LEARNING OUTCOMES

Prior to graduation, students will have demonstrated that they have an ability to apply knowledge of mathematics, science, and engineering, that they can design and conduct experiments, including the analysis and interpretation of data. They can design a system, circuit, or process to meet desired needs within realistic constraints. They can effectively work on a team to identify, formulate, and solve engineering problems. They understand their professional and ethical responsibilities. They are able to communicate effectively, and have received the broad education necessary to understand the impact of engineering solutions in a broader context. They recognize the need for, and are able to engage in life-long learning. They are able to use the techniques, skills, and modern engineering tools necessary for engineering practice.

FOUR YEAR PROGRAM SAMPLE

The following sample four-year program, designed for incoming freshmen, illustrates the careful planning necessary to complete the BS in ECE degree. All students are urged to construct such a four-year plan, in consultation with an ECE degree adviser, as early as possible. While subsequent changes are likely, maintaining a four-year plan provides a coherent path toward the degree. The markings (1) through (7) refer to notes and are explained at the bottom of the table.

First SemesterHours
Math 210 Calculus I 4
ME 411 Essential Engineering 3
Chem 211 General Chemistry I(1) 4
Chem 211L General Chemistry I, Lab(e) 1
Constitution Requirement(b) 3

Total Hours 15

Concentration Areas

In order to graduate, a student must choose four senior electives. Of these four courses, three must have the ECE curricular designation. Furthermore, of these four, at least two must be from within one concentration area. The following concentration areas are recognized:

Communication and Networking

ECE 412, ECE 474, ECE 476, CS 420, CS 421 or CS 422

Computer and VLSI Systems

ECE 416, ECE 424 or CS 457

Control and Power

ECE 458 or ECE 460 or ECE 466

Signal and Image Processing

ECE 458, ECE 460, ECE 466 or ECE 486

Notes:
1. The Technical Entrepreneur: 3
2. The Engineering Enterprise: 3
3. Essential Engineering: 3
4. Social and Behavioral Sciences: 9
5. Humanities and Fine Arts: 6
6. Communication: 6
7. Total Minimum Requirement: 125
### Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 240</td>
<td>Physics for Science &amp; Engr. I</td>
<td>5</td>
</tr>
<tr>
<td>COMS 110</td>
<td>Fundamentals of Effective Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Economics I(c)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours:** 18

### Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 250</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 250</td>
<td>Physics for Science &amp; Engr. II</td>
<td>5</td>
</tr>
<tr>
<td>ECE 216</td>
<td>Engineering Computation</td>
<td>4</td>
</tr>
<tr>
<td>ECE 226</td>
<td>Logic Design</td>
<td>3</td>
</tr>
<tr>
<td>ECE 227</td>
<td>Logic Design Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Hours:** 16

### Fourth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 291</td>
<td>Discrete Structures II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 225</td>
<td>English II(d)</td>
<td>3</td>
</tr>
<tr>
<td>ECE 276</td>
<td>Circuit Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECE 341</td>
<td>Engineering Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 222</td>
<td>Foundations of Logic</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours:** 17

### Fifth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE 352</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CSE 394R</td>
<td>Applied Probability</td>
<td>3</td>
</tr>
<tr>
<td>ECE 378</td>
<td>Systems Lab</td>
<td>2</td>
</tr>
<tr>
<td>ECE 380</td>
<td>Signals &amp; Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>ECE 381</td>
<td>Signals &amp; Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>ECE 428R</td>
<td>Microcomputer Architecture and Interfacing</td>
<td>3</td>
</tr>
<tr>
<td>ECE 429</td>
<td>Embedded Systems Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Hours:** 13

### Sixth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 311</td>
<td>Technical Entrepreneur</td>
<td>3</td>
</tr>
<tr>
<td>CS 350</td>
<td>Introduction to Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECE 377M</td>
<td>Senior Design I</td>
<td>2</td>
</tr>
<tr>
<td>Senior Elective(e)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Senior Elective(e)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours:** 14

### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 403</td>
<td>Senior Design II</td>
<td>3</td>
</tr>
<tr>
<td>Senior Elective(e)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Senior Elective(e)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fine Arts(g)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social and Behavioral Science(g)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours:** 15

**Total Hours:** 125

(a) Students with HS chemistry may petition to take BIOL 108/108L instead.
(b) Constitution Requirement may be satisfied by taking either HIST 201, 202, 360R or POLSC 210.
(c) Or ECON 202 Economics II.
(d) Prereq.: ACT English score at least 30, SAT Verbal score at least 630, AP English Lang/Comp score at least 4, or ENGL 110.
(e) See options and limitations for senior electives under curriculum requirements.
(f) Fine Arts electives include art/art history, conservatory or theatre.
(g) Social and Behavioral Science electives include criminal justice, economics, geography, history, political science, psychology, social science or sociology.

### Five Year Program Sample

Students should follow the sample program as listed for the BS in ECE degree and should apply for the graduate degree prior to enrolling for the Spring semester of their fourth year, so that they will take six hours of elective courses as a graduate student. During their fifth year, they could enroll in 12 credit hours each semester or make use of the Summer semester between their fourth and fifth year to take a course or special project, if offered.

---

### Dentistry, School of

#### SCHOOL OF DENTISTRY

Bachelor of Science in Dental Hygiene

- Student Learning Outcomes
- General Education Requirements
- Curriculum
- Degree Completion Program
  - Admission Degree Completion Program
  - Curriculum
  - Academic Standards

### General Education Requirements

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:

---
Communicating (9 hours) Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110</td>
<td>English I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 216</td>
<td>English II</td>
<td>3</td>
</tr>
<tr>
<td>COMS 100</td>
<td>Effective Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics (3 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 110</td>
<td>College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

Higher-order Thinking, Managing Information and Valuing (6 hours)

(Choose at least two different fields from the following):

- PHIL 210 or 222
- HIST 201, 202, 206, or 208
- ANTH 102 or 201
- CS 100 or above
- MATH 160 or above

Humanities and Fine Arts (6 hours)

One 3 credit hour course chosen from English, Communication Studies, Foreign Language or Philosophy AND one 3 credit hour course from Art/Art History, Conservatory or Theater.

Social and Behavioral Sciences (9 hours)

- General Sociology
- General Psychology
- Constitution Course

Biological and Physical Sciences (13-19 hours)

- Chemistry 4-6
  (Must be equivalent to UMKC Chem 211)
- Microbiology 3-5
- Anatomy 3-4
- Physiology 3-4

(If taking a combined Anatomy & Physiology course, it must be a sequence of two semesters.)

Electives (10-15 hours) 10-15

Computer application courses are highly recommended.

Bachelor of Science in Dental Hygiene

The dental hygiene program begins in August of each year and continues for two academic years with a summer session between years. For more information, contact the program director.

First Year

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 3065</td>
<td>Head and Neck Anatomy</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 3000</td>
<td>Dental Morphology and Occlusion</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 3020</td>
<td>Dental Radiology</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 3030</td>
<td>Introduction to the Practice of Dental Hygiene</td>
<td>4</td>
</tr>
<tr>
<td>DENHY 3080L</td>
<td>Pre-clinical Dental Hygiene</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 3220</td>
<td>Oral Health Education</td>
<td>2</td>
</tr>
<tr>
<td>LSPHSL 3070</td>
<td>Oral Physiology</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENHY 3210</td>
<td>Applied Biochemistry</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 3260</td>
<td>Histology and Pathology</td>
<td>3</td>
</tr>
<tr>
<td>DENHY 3280</td>
<td>Dental Biomaterials</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 3280C</td>
<td>Dental Hygiene Clinic I</td>
<td>3</td>
</tr>
<tr>
<td>DENHY 3280</td>
<td>Seminar in Dental Hygiene I</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 3260</td>
<td>Principles of Periodontics</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

Second Year

Summer Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENHY 4020</td>
<td>Local Anesthesia</td>
<td>3</td>
</tr>
<tr>
<td>DENHY 4050</td>
<td>Dental Hygiene Clinic II</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 4070</td>
<td>Seminar in Dental Hygiene II</td>
<td>1</td>
</tr>
<tr>
<td>DENHY 4080</td>
<td>Principles of Public Health</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENHY 4050</td>
<td>Periodontics II</td>
<td>1</td>
</tr>
<tr>
<td>DENHY 4060</td>
<td>Introduction to Research Design</td>
<td>2</td>
</tr>
<tr>
<td>LSPHSL 3240</td>
<td>Applied Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>DENHY 4070</td>
<td>Dental Hygiene Clinic III</td>
<td>4</td>
</tr>
<tr>
<td>DENHY 4080</td>
<td>Seminar in Dental Hygiene III</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 4220</td>
<td>Community Oral Health Field Exp.</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 4240</td>
<td>Ethics</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENHY 4260</td>
<td>Practice Management &amp; Juris</td>
<td>3</td>
</tr>
<tr>
<td>DENHY 4270</td>
<td>Community Oral Health Field Exp.</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 4260</td>
<td>Senior Seminar</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 4280</td>
<td>Dental Hygiene Clinic IV</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives (Select one)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENHY 4090</td>
<td>Research Practicum</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4110</td>
<td>Community Dentistry Practicum</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4120</td>
<td>Special Patient Care Practicum</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4130</td>
<td>Perio Co-therapy Practicum</td>
<td>1-4</td>
</tr>
<tr>
<td>DENHY 4140</td>
<td>Independent Study</td>
<td>1-4</td>
</tr>
</tbody>
</table>
A minimum of 124 semester hours is required for a bachelor's degree in dental hygiene.

The Division of Dental Hygiene reserves the privilege of making changes and improvements in course sequence and content to assure the best dental hygiene education for its students.

**STUDENT LEARNING OUTCOMES**

The following competencies have been adopted by the faculty in the Division of Dental Hygiene as the skills, knowledge and values every graduate must be able to consistently and independently demonstrate to qualify for graduation. The School of Dentistry, Division of Dental Hygiene assessment plan calls for these competencies to be assessed throughout the classroom, laboratory and patient care experiences during the student's tenure in the program in the form of papers, case study presentations, student portfolios, clinical competency examinations, community assessment and other appropriate assessment measures.

The UMKC dental hygiene graduate will be competent in:

- Assessing persons of all ages and stages of life.
- Treatment planning and case presentation for persons of all ages/stages of life.
- Health education strategies for the prevention of disease and the promotion of health.
- Provision of preventive and therapeutic dental hygiene services for persons of all ages/stages of life.
- Use of support procedures to facilitate the provision of dental hygiene care.
- Infection and hazard control procedures to prevent transmission of infectious diseases.
- Management procedures (emergency management, communication, etc.)
- Community oral health strategies.
- Utilization of information technology to assist in evidence-based decision making.

Students must complete the required writing intensive courses within the dental hygiene curriculum with a grade of "C" or higher thereby meeting the WEPT requirement for BSDH candidates.

**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. 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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENHY 1395*</td>
<td>Scientific Writing</td>
<td>1</td>
</tr>
<tr>
<td>DENHY 2320*</td>
<td>Local Anesthesia and Pain Control</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 3340*</td>
<td>Research and Instruction</td>
<td>1-2</td>
</tr>
<tr>
<td>DENHY 3345*</td>
<td>Seminar in Health Care Issues</td>
<td>1-2</td>
</tr>
<tr>
<td>DENHY 3346*</td>
<td>Principles of Dental Hygiene Education</td>
<td>3</td>
</tr>
<tr>
<td>DENHY 4380*</td>
<td>Introduction to Research Design</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 4675</td>
<td>Dental Hygiene Administration</td>
<td>3</td>
</tr>
<tr>
<td>DENHY 4690*</td>
<td>Advanced Clinic Concepts and Practicum</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 46X0</td>
<td>Student Teaching and Conference I</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4880*</td>
<td>Dental Hygiene Clinical Instruction I</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4885</td>
<td>Dental Hygiene Clinical Instruction II</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4950</td>
<td>Student Teaching and Conference II</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 5630</td>
<td>Practicum in Dental Hygiene Administration</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 5675</td>
<td>Practicum in Clinical Supervision</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 5885</td>
<td>Research Practicum</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 5895</td>
<td>Independent Study</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 5940</td>
<td>Community Dentistry Practicum</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 5955</td>
<td>Periodontics Co-Therapy</td>
<td>3</td>
</tr>
<tr>
<td>DENHY 5950</td>
<td>Oncology Practicum</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 5955</td>
<td>Special Patient Care Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

- **Required courses in the degree completion curriculum**

The student must complete 30 credit hours in residence and have a minimum of 124 semester hours for a baccalaureate degree in dental hygiene. Electives may be taken in the School of Dentistry, College of Arts and Sciences, School of Education or Henry W. Bloch School of Business and Public Administration. The particular choice of study will be determined by each student in consultation with the director of the degree completion program.

**Student Learning Outcomes**

The following competencies have been adopted by the faculty to assure our graduates are adequately prepared to succeed in the dynamic job market of their chosen area of expertise. The assessment plan provides direct and indirect measures of these competencies through exit interview, portfolio, California critical thinking skills test, Information Competency exam, and publication rate.

The competencies expected of a graduate are:

- Managing self (ability to take responsibility for one's own education and performance, including the awareness, development and application of one's own skills and competencies).
- Managing Information (ability to pose a researchable question, collect evidence, understand and apply evidence and use technology to manage literature and data).
- Communicating (interacting effectively with a variety of individuals and groups to facilitate the gathering, integrating and conveying of information in many forms; i.e., verbal, written, visual).
- Managing people and tasks (the ability to direct, plan, organize and coordinate work done by others; involves making decisions, motivating people and managing conflict).
- Mobilizing innovation and change (conceptualizing and setting in motion ways of initiating and managing change that involves significant departures from the current mode).
- Ethical decision making (ability to consider ethical issues and assess consequences of decision making).

**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 Feb. 1 for the class beginning in August of each year. The program may be completed on a full- or part-time basis. Basic requirements and credentials for admission are all of the following:

1. Graduation from an accredited dental hygiene program.
2. Results and successful completion of the National Board Examination for dental hygiene.
3. High school transcripts.
5. Satisfactory grade point average.
6. Application for admission to UMKC.
7. Supplemental application for admission to the Division of Dental Hygiene.
8. Three reference forms (including one from the director of the accredited dental hygiene program attended).

All students enrolled in the degree completion program must complete the general education requirements of the Division of Dental Hygiene prior to completion of the baccalaureate degree. Refer to the general education requirements stated under the description of the basic preparation program for a listing of those courses. Courses that the student has not completed will be included in the individual program of study for that student.

An individual program of study will be developed for each student depending on the number of college hours completed previously. The following courses are available through the Division of Dental Hygiene:

**Hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENHY 595*</td>
<td>Scientific Writing</td>
<td>1</td>
</tr>
<tr>
<td>DENHY 599*</td>
<td>Local Anesthesia and Pain Control</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 404*</td>
<td>Research and Instruction</td>
<td>1-2</td>
</tr>
<tr>
<td>DENHY 405*</td>
<td>Seminar in Health Care Issues</td>
<td>1-2</td>
</tr>
<tr>
<td>DENHY 420*</td>
<td>Principles of Dental Hygiene Education</td>
<td>3</td>
</tr>
<tr>
<td>DENHY 480*</td>
<td>Introduction to Research Design</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 490*</td>
<td>Dental Hygiene Administration</td>
<td>3</td>
</tr>
<tr>
<td>DENHY 496*</td>
<td>Advanced Clinic Concepts and Practicum</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4440</td>
<td>Student Teaching and Conference I</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4450</td>
<td>Dental Hygiene Clinical Instruction I</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4465</td>
<td>Dental Hygiene Clinical Instruction II</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4480</td>
<td>Dental Hygiene and Conference II</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4485</td>
<td>Practicum in Dental Hygiene Administration</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4490</td>
<td>Practicum in Clinical Supervision</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4580</td>
<td>Research Practicum</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4590</td>
<td>Independent Study</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4640</td>
<td>Community Dentistry Practicum</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4720</td>
<td>Periodontics Co-Therapy</td>
<td>3</td>
</tr>
<tr>
<td>DENHY 4430</td>
<td>Oncology Practicum</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4440</td>
<td>Special Patient Care Practicum</td>
<td></td>
</tr>
</tbody>
</table>

* Required courses in the degree completion curriculum.

The student must complete 30 credit hours through the University of Missouri-Kansas City 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, Henry W. Bloch School of Business and Public Administration or Center for Distance and Independent Study. The particular choice of study will be determined by each student in consultation with the director of the degree completion program.

**Student Learning Outcomes**

The following competencies have been adopted by the faculty to assure our graduates are adequately prepared to succeed in the dynamic job market of their chosen area of expertise. The assessment plan provides direct and indirect measures of these competencies through exit interview, portfolio, California critical thinking skills test, Information Competency exam, and publication rate.

The competencies expected of a graduate are:

- Managing self (ability to take responsibility for one’s own education and performance, including the awareness, development and application of one’s own skills and competencies).
- Managing Information (ability to pose a researchable question, collect evidence, understand and apply evidence and use technology to manage literature and data).
- Communicating (interacting effectively with diverse individuals and groups to facilitate the gathering, integrating and conveying of information in many forms; i.e., verbal, written, visual).
- Managing people and tasks (the ability to direct, plan, organize and coordinate work done by others; involves making decisions, motivating people and managing conflict).
- Mobilizing innovation and change (conceptualizing and setting in motion ways of initiating and managing change that involves significant departures from the current mode).
- Ethical decision making (ability to consider ethical issues and assess consequences of decision making).

**Degree Completion Program**

All students enrolled in the degree completion program must complete the general education requirements of the Division of Dental Hygiene prior to completion of the baccalaureate degree. Refer to the general education requirements stated under the description of the basic preparation program for a listing of those courses. Courses that the student has not completed will be included in the individual program of study for that student.

An individual program of study will be developed for each student depending on the number of college hours completed previously. The following courses are available through the Division of Dental Hygiene:

**Hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENHY 595*</td>
<td>Scientific Writing</td>
<td>1</td>
</tr>
<tr>
<td>DENHY 599*</td>
<td>Local Anesthesia and Pain Control</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 404*</td>
<td>Research and Instruction</td>
<td>1-2</td>
</tr>
<tr>
<td>DENHY 405*</td>
<td>Seminar in Health Care Issues</td>
<td>1-2</td>
</tr>
<tr>
<td>DENHY 420*</td>
<td>Principles of Dental Hygiene Education</td>
<td>3</td>
</tr>
<tr>
<td>DENHY 480*</td>
<td>Introduction to Research Design</td>
<td>2</td>
</tr>
<tr>
<td>DENHY 490*</td>
<td>Dental Hygiene Administration</td>
<td>3</td>
</tr>
<tr>
<td>DENHY 496*</td>
<td>Advanced Clinic Concepts and Practicum</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4440</td>
<td>Student Teaching and Conference I</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4460</td>
<td>Dental Hygiene Clinical Instruction</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4485</td>
<td>Dental Hygiene Clinical Instruction II</td>
<td>2-4</td>
</tr>
<tr>
<td>DENHY 4450</td>
<td>Student Teaching and Conference II</td>
<td>2-4</td>
</tr>
</tbody>
</table>
BACHELOR OF ARTS: SECONDARY EDUCATION

BACHELOR OF ARTS: MIDDLE SCHOOL EDUCATION

BACHELOR OF ARTS: ELEMENTARY EDUCATION

SCHOOL OF EDUCATION Bachelor of Arts: Early Childhood Education

Students who complete this program will earn the bachelor of arts in early childhood education (birth to grade 3). Successful completion of this program includes a professional teacher's work sample. This results in eligibility for UMKC's recommendation for teacher certification in a self-contained early childhood/elementary classroom setting with children birth through grade three in Missouri, contingent on meeting state testing requirements. Completing four additional classes (10 credit hours) will allow certification for grades 1-6.

A 2.75 cumulative GPA is required at completion of the program. Grades of C or better are required in all professional education classes. Consult with an academic adviser to determine specific course requirements.

Bachelor of Arts: Elementary Education

Students who complete this program will earn the bachelor of arts in elementary education. Successful completion of this program includes a professional portfolio and meeting Missouri state certification testing requirements. This results in eligibility for UMKC's recommendation for elementary certification (grades first-sixth) in Missouri.

A 2.75 cumulative GPA is required at completion of program. Grades of C or better are required in all subject matter and professional education classes. Consult with an academic adviser to determine specific course requirements.

Bachelor of Arts: Middle School Education

The Bachelor of Arts in middle school education is taken with an emphasis in the subject area to be taught. Successful completion of this program includes a professional portfolio and meeting Missouri state certification testing requirements. This results in eligibility for UMKC's recommendation for middle school education certification (grades 5-9) in Missouri. The subjects available include:

- English
- Mathematics
- Science
- Social Studies

General education and subject matter requirements will vary with the field to be taught. Students must consult with an adviser to determine specific requirements. Students who already have a bachelor's degree may be required to complete subject area requirements that were not part of their prior degree program in addition to the professional education requirements.

Subject Matter Area

Students must consult with 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.

A 2.75 cumulative GPA is required at completion of program. Grades of C or better are required in all subject matter and professional education classes. Consult with an academic adviser to determine specific course requirements.

Bachelor of Arts: Secondary Education

The Bachelor of Arts in Secondary Education is to be taken with an emphasis in the subject to be taught. Dual degrees in secondary education and subject area are possible with additional coursework. Check with an adviser for specific information. Successful completion of this program includes a professional portfolio and meeting Missouri state certification testing requirements. This results in eligibility for UMKC's recommendation for secondary education certification (grades 9-12) in Missouri. The subjects available include:

- Art (K-12)
- Biology
- Chemistry
- Earth Science
- English
- Foreign Language (K-12)
- Mathematics
- Physics
- Social Sciences

Note: Music Education majors should check degree requirements with the Conservatory of Music and Dance.

General education and subject matter requirements vary with the field to be taught. Students must consult with an adviser to determine specific requirements. Students who already have a bachelor's degree may be required to complete subject area requirements that were not part of their prior degree program in addition to the professional education requirements.
Student Learning Outcomes

The School of Education subscribes to the Missouri Standards for Teacher Education Programs (MoSTEP).

**Missouri Standards for Teacher Education Programs (MoSTEP)**

Performance Standards for Education Professionals

The School of Education ensures that candidates possess the knowledge, skills and competencies defined as appropriate to their area(s) of responsibility.

**General Education for Initial Teacher Preparation**

The School of Education ensures that candidates have completed general studies courses and experiences in the liberal arts and sciences.

Quality Indicators:
- The general studies include the arts, communications, history, literature, mathematics, philosophy, sciences and the social sciences.
- The general studies incorporate multi-cultural and global perspectives.

**Content, Professional, Pedagogical and Integrative Studies for Initial Teacher Preparation**

The School of Education ensures that candidates have completed a program of content, professional, pedagogical and integrative studies.

**MoSTEP Standards/Program Goals**

**Goal No. 1:** The preservice teacher understands the central concepts, tools of inquiry and structures of the discipline(s) within the context of a global society and creates learning experiences that make these aspects of subject matter meaningful for students.

Performance Indicators: The preservice teacher:
1. Designs and knows the discipline applicable to the certification area(s) (as defined by Missouri State Subject Area Competencies).
2. Presents the subject matter in multiple ways.
3. Uses students' prior knowledge.
4. Engages students in the methods of inquiry used in the discipline.
5. Creates interdisciplinary learning.

Goal No. 2: The preservice teacher understands how students learn and develop, and provides learning opportunities that support the intellectual, social and personal development of all students.

Performance Indicators: The preservice teacher:
1. Knows and identifies child/adolescent development.
2. Strengthens prior knowledge with new ideas.
3. Encourages student responsibility.

Goal No. 3: The preservice teacher understands how students differ in their approaches to learning and creates instructional opportunities that are adapted to diverse learners.

Performance Indicators: The preservice teacher:
1. Identifies prior experience, learning styles, strengths and needs.
2. Designs and implements individualized instruction based on prior experience, learning styles, strengths and needs.
3. Knows how and how to access specialized services to meet students' needs.
4. Connects instruction to students' prior experiences and family, culture and community.

Goal No. 4: The preservice teacher recognizes the importance of long-range planning and curriculum development and develops, implements and evaluates curriculum based upon student, district and state performance standards.

Performance Indicators: The preservice teacher:
1. Selects alternative teaching strategies, materials and technology to achieve multiple instructional purposes and to meet student needs.
2. Creates lessons and activities that promote the development of critical thinking, problem solving and performance capabilities.

Goal No. 6: The preservice teacher uses an understanding of individual and group motivation and behavior to create a learning environment that encourages positive social interaction, active engagement in learning and self-motivation.

Performance Indicators: The preservice teacher:
1. Knows motivation theories and behavior management strategies and techniques.
2. Manages time, space, transitions and activities effectively.
3. Engages students in decision making.

Goal No. 7: The beginning teacher models effective verbal, nonverbal and media communication techniques to foster active inquiry, collaboration and supportive interaction in the classroom.

Performance Indicators: The preservice teacher:
1. Models effective verbal/non-verbal communication skills.
2. Demonstrates sensitivity to cultural, gender, intellectual and physical ability differences in classroom communication and in responses to students' communications.
3. Supports and expands learner expression in speaking, writing, listening and other media.
4. Uses a variety of media communication tools.

Goal No. 8: The preservice teacher understands and uses formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social and physical development of the learner.

Performance Indicators: The preservice teacher:
1. Employs a variety of formal and informal assessment techniques (e.g., observation, portfolios of student work, teacher-made tests, performance tasks, projects, student self-assessments, authentic solving, build and standardized tests) to enhance and monitor his or her knowledge of learning, to evaluate student progress and performances and to modify instructional approaches and learning strategies.
2. Uses assessment strategies to involve learners in self-assessment activities, to help them become aware of their learning behaviors, strengths, needs and progress and to encourage them to set personal goals for learning.
3. Evaluates the effect of class activities on both the individual and the class as a whole, collecting information through observation of classroom interactions, questioning and analysis of student work.
4. Maintains useful records of student work and performances and can communicate student progress knowledgeably and responsibly, based on appropriate indicators, to student, parents and other colleagues.

Goal No. 9: The preservice teacher is a reflective practitioner who continually assesses the effects of choices and actions on others. This reflective practitioner actively seeks out opportunities to grow professionally and utilizes the assessment and professional growth to generate more learning for more students.

Performance Indicators: The preservice teacher:
1. Applies a variety of self-assessment and problem-solving strategies for reflecting on practice, their influences on students' growth and learning, and the complex interactions between them.
2. Uses resources available for professional development.
3. Practices professional ethical standards.
Goal No. 10: The preservice teacher fosters relationships with school colleagues, parents and educational partners in the larger community to support student learning and well-being.

Performance Indicators: The preservice teacher:

1. Participates in collegial activities designed to make the entire school a productive learning environment.
2. Talks with and listens to students, is sensitive and responsive to signs of distress and seeks appropriate help as needed to solve students’ problems.
3. Seeks opportunities to develop relationships with the parents and guardians of students, and seeks to develop cooperative partnerships in support of student learning and well-being.
4. Identifies and uses the appropriate school personnel and community resources to help students reach their full potential.

Goal No. 11: The preservice teacher understands theories and applications of technology in educational settings and has adequate technological skills to create meaningful learning opportunities for all students.

Performance Indicators: The preservice teacher:

1. Demonstrates an understanding of instructional technology concepts and operations.
2. Plans and designs effective learning environments and experiences supported by informational and instructional technology.
3. Implements curriculum plans that include methods and strategies for applying informational and instructional technology to maximize student learning.
4. Uses technological applications to facilitate a variety of effective assessment and evaluation strategies.
5. Uses technology to enhance personal productivity and professional practice.
6. Demonstrates an understanding of the social, ethical, legal and human issues surrounding the use of technology in Pre-K-12 schools and applies that understanding in practice.

Medicine, School of

SCHOOL OF MEDICINE STUDENT LEARNING OUTCOMES

Years 1-2

Effective Communication
- The student demonstrates competence in written communications such as laboratory reports, term papers and other classroom writing assignments.
- The student demonstrates competence in oral communications in a one-on-one setting, such as introducing and beginning a history with an individual patient. History-taking skills at this level will be very basic and straightforward.
- The student demonstrates effective listening skills with faculty members, other students and patients.

Clinical Skills
- The student is able to perform the basic elements of a history. The student will have observed a physical examination and observed some of the routine clinical procedures.
- The student has an introductory and very general understanding of anatomy and microbiology.
- The student has a more advanced understanding and an ability to apply some information to a few clinical situations in biochemistry and physiology.
- The student is able to interpret standard diagnostic studies and history and physical examination data. From these data, the student is able to state the most likely diagnosis when presented with straightforward presentations of common problems in general internal medicine. The student is expected to carry out management plans in those situations that are relatively straightforward presentations of common problems in general internal medicine.
- The student demonstrates academic honesty in all aspects of his/her coursework for the baccalaureate-M.D. degree.
- The student is able to identify areas of strength and is able to build on these strengths.
- The student is able to set goals for a self-study plan.
- The student is aware of his/her personal growth in regards to age specific developmental tasks.
- The student knows the elements of professional behavior and can explain the meaning of each element.
- The student can cite an example of how each of the elements applies in Year 1 and Year 2 coursework for the baccalaureate and M.D. degree.

Diagnosis, Management and Prevention
- The student has an introductory understanding of principles of diagnosis, management and prevention.
- The student is able to identify general, rather than specific approaches to management, but is usually not expected to carry them out in real settings.
- The student demonstrates academic honesty in all aspects of his/her coursework for the baccalaureate-M.D. degree.
- The student demonstrates competence in oral communications in a one-on-one setting, such as introducing and beginning a history with an individual patient. History-taking skills at this level will be very basic and straightforward.
- The student develops and demonstrates competency in using the written language effectively by:
  - Medical record documentation in the continuing care clinic and on docent rotation.
  - Writing papers for courses and rotations.
  - Essay examinations in medical ethics.
- The student demonstrates an understanding of the social, ethical, legal and human issues surrounding the use of technology in Pre-k-12 schools and applies that understanding in practice.
- The student attributes proper importance to identifying non-biological factors.
- The student is able to perform the basic elements of a history. The student will have observed a physical examination and observed some of the routine clinical procedures.
- The student is able to set goals for a self-study plan.
- The student is aware of his/her personal growth in regards to age specific developmental tasks.
- The student knows the elements of professional behavior and can explain the meaning of each element.
- The student can cite an example of how each of the elements applies in Year 1 and Year 2 coursework for the baccalaureate and M.D. degree.

Lifelong Learning in Medicine, Basic Sciences, the Social Sciences and the Humanities
- The student displays competence in basic problem-solving skills as applied to basic science courses or simple, straightforward medical problems.

Years 3-4

Effective Communication
- The student displays competence in basic problem-solving skills as applied to basic science courses or simple, straightforward medical problems.
- The student is able to perform a comprehensive history and physical examination of patients in the outpatient setting and the general medical wards, excluding critical care settings.
- The student is competent in performing venipuncture and basic CPR.
- The student is able to perform a gram-stain, vaginal smear wet prep, stool occult blood, urinalysis, urine pregnancy test, finger stick glucose determination and peak expiratory flow rate.
- The student has observed and is familiar with some of the more complex or specialized lab and diagnostic tests.
- The student knows the basics in the interpretation of plain x-ray studies; chest x-ray, abdominal x-ray.

Clinical Skills
- The student applies knowledge in the areas of behavioral science, anatomy, pathology, biochemistry, physiology, microbiology and immunology, and pharmacology to the overall care of patients.
- The student is able to interpret standard diagnostic studies and history and physical examination data. From these data, the student is able to state the most likely diagnosis when presented with straightforward presentations of common problems in general internal medicine. The student is expected to carry out management plans in those situations that are relatively straightforward presentations of common problems in general internal medicine.
TYPICAL SIX-YEAR PROGRAM CURRICULUM

Lifelong Learning in Medicine, Basic Sciences, the Social Sciences and the Humanities

- The student is able to do a computerized literature search as it applies to patient problems.
- The student is able to comprehend the medical literature and understand basic statistics and the scientific method.
- The student is continually motivated by an awareness of the limits of his/her personal knowledge and experience.

Self-awareness, Self-care, Personal Growth and Professional Behavior

- The student is reflective about him or herself in a group context.
- He or she is able to confront his/her own values as they relate to the practice of medicine.
- The student is able to identify real situations of stress and his/her response to these situations.
- The student is able to practice personal techniques for relaxation and time management and can modify behavior and respond to constructive criticism.
- The student is able to identify learning needs, plan a program to meet those needs and determine how well they have met them and what further learning issues they need to address.

Diversity and the Social and Community Contexts of Health Care

- The student elicits and identifies non-biological factors as part of the routine history taking and includes those issues, as appropriate, in the problem list formulations and management plans.
- The student takes personal responsibility for discussing these issues with patients, assessing their needs and matching them to appropriate community resources.
- The student works with his/her individual patients and families to enhance their total well-being.

Moral Reasoning and Ethical Judgment

- The student is able to employ ethical concepts and reasoning when presented with typical ethical cases in medicine, and is able to recognize ethical issues in medical practice.

Problem-Solving Skills

- The student displays competence in problem-solving skills with common clinical problems utilizing a limited knowledge base.

Years 5-6

Effective Communication

- The student develops and demonstrates competency in using the written language effectively by:
  - medical record documentation on clinical rotations.
  - preparing written patient education material.
  - writing clinical papers.
  - Journals, short stories, papers or poetry during medical humanities and social science courses.

- The student displays and demonstrates competency in using oral language and listening effectively by:
  - communicating with patients and families in the continuing care clinic and clinical rotations.
  - presenting new patients to faculty in continuing care clinic and clinical rotations.
  - delivering lectures on clinical rotations utilizing slides and handouts.
  - communicating with student partners, peers, faculty and the health care providers.
  - oral examinations.

- The student develops and demonstrates competency in respecting patients and sharing information effectively with patients, families and health care team members by:
  - interacting with the individuals on clinical rotations and the continuing care clinic.
  - working as an integral part of the docent team and teams on other clinical rotations.
  - functioning as an effective senior student partner.

Clinical Skills

- The student is able to perform the basic and emergency elements of a history and physical examination smoothly and efficiently in the outpatient setting, inpatient setting, critical care setting and emergency department settings.
- The student is able to perform and interpret basic clinical procedures, laboratory and diagnostic tests smoothly and efficiently as listed.
- The student is able to describe the procedural steps necessary to carry out advanced clinical procedures as listed.
- The student observes and is able to state the indications, complications, and limitations of advanced clinical procedures as listed.
- The student is aware of the indications, complications and limitations of and interpret from the written reports complex and specialized laboratory and diagnostic tests as listed.

Using Basic Science in the Practice of Medicine

- The student is able to explain a multi-system health problem in terms of pathogenesis, mechanisms of system-to-system interactions and potential complications. The student is able to present therapeutic goals and interventions aimed at the multiple pathophysiological forces in motion.
- The student is able to exhibit clinical decision analysis that weighs the pros and cons of proposed interventions, taking into consideration such factors as drug-drug interactions and the trade-off of proposed drug interventions in the context of multi-system problems.

Diagnosis, Management, and Prevention

- The student is able to state the most likely diagnosis and management plan when presented with presentations of common problems in any of the major disciplines.
- The student is able to integrate the approach of care to individuals, families and communities, taking advantage of opportunities for prevention and education in addition to the immediate physical care.
- The student through his/her experiences in the continuing care clinic is able to provide continuing care and management for both chronic and acute medical problems and provide appropriate plans for prevention.

Lifelong Learning in Medicine, Basic Sciences, the Social Sciences and the Humanities

- The student begins to explore new opportunities for intellectual growth and professional enlightenment in medicine, the social sciences and humanities.
- The student attends a continuing medical education course.
- The student continues to recognize his/her limits of knowledge and experience.
- The student is able to recognize the significance of valid scientific discoveries reported in medical journals and recognize unsubstantiated, inaccurate or poorly performed studies and conclusions.

Self-awareness, Self-care, Personal Growth and Professional Behavior

- The student utilizes skill in coping with stress during clinical rotations.
- The student develops and demonstrates appropriate personal values and beliefs relevant to his/her practice of medicine.
- The student demonstrates compassion, sensitivity, honesty, integrity and responsibility in his/her day-to-day interactions with patients, families, peers, faculty and staff.

Diversity and the Social and Community Contexts of Health Care

- The student is able to identify and propose solutions for non-biological factors that influence health, disease, disability and access to care.
- The student is able to utilize resources in the community that may provide assistance to his or her patients.
- The student is an advocate for better health for the patients and the community.
- The student demonstrates knowledge of practice management, utilization review, quality improvement and economic and cultural issues in health care.

Moral Reasoning and Ethical Judgment

- The student is able to identify patient care and health policy ethical issues and choices in his or her own clinical experience; to evaluate critically alternative ethical courses of action by analyzing and articulating reasons for the relative importance of the different ethical considerations bearing on each choice; to select and ethically defend a course of action.
- The student recognizes the importance of the ethical treatment of research subjects and the functions of an Institutional Review Board.

Problem Solving

- The student displays competence in more advanced clinical problem solving using a comprehensive knowledge base.
- The student can effectively utilize a team approach in solving clinical problems.

YEAR 1

Medical Sciences

Fall Medical Terminology
Learning Basic Medical Sciences
Fundamentals of Medical Practice I

Spring Fundamentals of Medical Practice II

Arts & Sciences

Fall Human Biology I (Anatomy) w/Lab
General Chemistry I w/Lab
Psychology
Courses for B.A. Degree*

Spring Human Biology III (Microbiology) w/Lab
General Chemistry II w/Lab
Sociology
Courses for B.A. Degree*

Year 2
Medicine
Summer  Hospital Team Experience
Fall  Fundamentals of Medical Practice III
Spring  Fundamentals of Medical Practice IV

Arts & Sciences
Summer  Organic Chemistry w/Lab
Cell Biology
Fall  Human Biochemistry
Sociology - Life Cycles
Genetics
Courses for B.A. Degree*
Spring  Structure/Function I, II, III
Courses for B.A. Degree*

Year 3
Medicine
History of Medicine
Clinical Correlations
Clinical Skills
Introduction to Pharmacology (Independent Study)
CUES
Pathology I & II
Medical Microbiology
Medical Neurosciences
Continuing Ambulatory Care Clinic

Arts & Sciences
Structure/Function IV

Year 4
Medicine
Pharmacology
Behavioral Sciences in Medicine
Docent Rotation
Family Practice
Ambulatory Care Pharmacology (Indep Study)
Continuing Ambulatory Care Clinic

Arts & Sciences
Courses for B.A. Degree*

Year 5
Medicine
Psychiatry
Prescribing for Special Populations (Indep Study)
Obstetrics/Gynecology
Pediatrics
Family Medicine Preceptorship
Surgery
Elective
Docent Rotation
Emergency Medicine (may be taken in Year 6)

Arts and Sciences
Humanities/Social Sciences (may be taken in Year 6)

Year 6
Medicine
Docent Rotation
Emergency Medicine (may be taken in Year 5)
Rational & Safe Drug Prescribing (Indep Study)
Electives
Continuing Ambulatory Care Clinic

Arts & Sciences
Humanities/Social Sciences (may be taken in Year 5)

* 3 to 12 credit hours will come from general degree requirements and/or core major requirements.
All students are required to take three clinical electives, one of which must be direct patient care.

Music and Dance, Conservatory of

CONSERVATORY OF MUSIC AND DANCE MINIMUM CORE REQUIREMENTS FOR ALL B.M. DEGREES

Required Courses
HISTORY 101/102 or POL-SCI 210
ENGLISH 110
ENGLISH 225
CONSVTY 154
CONSVTY 154A
CONSVTY 121, 122, 221, 222A
CONSVTY 129A, 129B, 229A, 229B
CONSVTY 150
CONSVTY 325**
CONSVTY 351, 352
CONSVTY 380/381

* Required for Jazz and Studio Music, Organ and Theory Emphasis Areas.
** Not required for Jazz and Studio Music Emphasis Area.

MINIMUM FOREIGN LANGUAGE REQUIREMENTS FOR B.M. DEGREES
The following foreign language requirements for the various bachelor of music degrees may be met by high-school equivalency courses, or by taking college-level foreign language courses. High-school foreign language coursework must be evaluated by the Conservatory to determine applicability toward a degree.

- Composition: Any foreign language 110 & 120, 10 hours
STUDENT LEARNING OUTCOMES

BACHELOR OF MUSIC IN MUSIC COMPOSITION

Every musician functions to some extent as:

Musicianship:
To that end the Conservatory endorses the acquisition of skills in musicianship and general studies.

General Studies:
Studies in other areas of human achievement are important in the education of musicians. As a result students are required to develop an awareness of basic ideas and concepts in:

- Natural and physical sciences
- Social sciences and communication
- Other areas of the arts and humanities

Students are encouraged to view the combination of musicianship and general studies as a means of developing a broad foundation for future artistic and intellectual development.

Accomplishments:

- Continuing practice in creating, interpreting, presenting, analyzing and evaluating music.
- Acquiring capacities to integrate musical knowledge and skills.
- Accumulating capabilities for independent work in the music professions.

Music Composition Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSVTY 101-301 Ensemble</td>
<td>6</td>
</tr>
<tr>
<td>General Studies</td>
<td>16-18</td>
</tr>
<tr>
<td>Electives (Theory course 300 or above)</td>
<td>1-3</td>
</tr>
<tr>
<td>Area of Concentration(s)</td>
<td>16-18</td>
</tr>
<tr>
<td>Electives</td>
<td>14</td>
</tr>
<tr>
<td>CONSVTY 310 Keyboard Skills IV</td>
<td>2</td>
</tr>
</tbody>
</table>

Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.

(a) Students majoring in composition must complete level 301 secondary in any applied area.

(b) Ensemble: Participation as a performer by enrollment in a major ensemble (other ensembles may be substituted for a major ensemble only by petition) for a minimum of four semesters is required. Four additional semesters (not necessarily major ensembles) must be fulfilled either through additional enrollment as a performer or through enrollment in CONSVTY 301G Ensemble for Composers, though a minimum of two semesters of CONSVTY 301G must be taken. It is expected that students enrolling for CONSVTY 301G more than once will observe a different ensemble or ensembles each time they enroll.

Participating ensembles include: Conservatory Orchestra, Conservatory Wind Ensemble, Conservatory Wind Symphony, Men's Chorus, Women's Chorus, Heritage Chorale, Jazz Band, Jazz Orchestra, Jazz Workshops, Canticum Novum, Musica Nova, Percussion Ensemble and Jazz Quintet. (Others may be added as the course develops.)

Course enrollment is done through the appropriate student services coordinator in the Conservatory Academic Affairs Office, but assignment of students to particular ensembles will be done by the composition faculty in consultation with ensemble directors. Composition faculty will be responsible for communicating with conductors regarding upcoming repertoire.

(c) Major status for the B.M. Music Composition degree is determined for new students (freshmen and transfer students) by the faculty through the standard admissions process. Students currently enrolled at UMKC who were accepted as majors in other programs must petition the composition faculty for major status. The petition will include:

A portfolio of 2-3 representative scores and/or tape recordings of original work.
A personal interview (at the discretion of the composition faculty).
Transcripts and other academic credentials.
A complete list of original compositions by the petitioner.

Normally, petitions will be considered during the spring semester as a part of the admissions review process for the coming year.

Maintenance of major status is required for eligibility for composition scholarships and fellowships. In order to maintain major status, two conditions must be met:

A minimum of a B- average in Musc Theory classes (121, 129A, 122, 129B, 221, 229A, 222A, 229B) must be maintained.
A student who fails to meet either or both of these conditions is considered to be on probation, and must retake classes or raise the average within one year to avoid loss of major status. If major status is revoked, it may only be reinstated by petition (as described above).

(d) The Area of Concentration is developed by the student before the end of the freshman year (or before the end of the first semester of CONSVTY study for transfer students) with guidance and approval of the composition faculty as a part of the planned program.

STUDENT LEARNING OUTCOMES

The Conservatory of Music and Dance aims to meet or exceed the educational standards set by the National Association of Schools of Music (NASM) for the training of undergraduate music students. To that end the Conservatory endorses the acquisition of skills in musicianship and general studies.

Musicianship:

Every musician functions to some extent as:

- Performer
- Listener
- Historian
- Composer
- Theorist
- Teacher

Therefore students are required to be exposed to and develop basic competencies in all of these areas. The content of this area includes:

- Sight-singing
- Ear-training
- Harmony
- Keyboard skills
- Counterpoint
- Orchestration/arranging
- Conducting
- Music literature
- Performance practice

Undergraduate musicianship studies focus on:

2. Continued practice in creating, interpreting, presenting, analyzing and evaluating music.
3. Increasing understanding of various musical cultures and historical periods.
4. Acquiring capacities to integrate musical knowledge and skills.
5. Accumulating capabilities for independent work in the music professions.

General Studies:

Studies in other areas of human achievement are important in the education of musicians. As a result students are required to develop an awareness of basic ideas and concepts in:

- Natural and physical sciences
- Social sciences and communication
- Other areas of the arts and humanities
**Bachelor of Music in Performance**

Students seeking degrees in this program may select an emphasis area in:

- Guitar
- Organ
- Piano
- Piano pedagogy
- Jazz and studio music
- String instruments (cello, string bass, viola, and violin)
- Voice
- Wind and percussion instruments (bassoon, clarinet, euphonium, flute, horn, oboe, percussion, saxophone, trombone, trumpet, and tuba)

**Guitar Emphasis Area**

**Prerequisites**

1. Students must show demonstrable knowledge of all major and minor scales and arpeggios in two and three octaves.
2. Students should be able to perform selections in contrasting styles at the level of Sor, Giuliani, Carulli, etc.
3. Students must be able to sight read single-line melodies in all positions.

**Required Courses**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
</table>

*Successful completion of CONSVT 310, Keyboard Skills IV, with a grade of B- or better is required.*

**Jazz and Studio Music Emphasis Area**

**Note:** For saxophone, trumpet, trombone, guitar, string bass, percussion and piano. Other instruments may be considered by petitioning the jazz faculty.

**Prerequisites**

1. Students must show demonstrable knowledge of all major and minor scales and arpeggios, in one or two octaves, etudes and solos from standard literature of the instrument, including one jazz selection from memory.
2. Membership in high school orchestra, band or jazz band is desirable.
3. Sight reading will be required.
4. An interview with the appropriate jazz faculty is required.

**Required Courses**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
</table>

*Successful completion of CONSVT 310, Keyboard Skills IV, with a grade of B- or better is required. (a) CONSVT 302B or 302G 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**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
</table>
(a) Organ performance majors have the option of using a maximum of four semesters of CONSVTY 305G, Collaborative Keyboard, in lieu of their major ensemble.
(b) Two semesters of applied piano are required. PIANO 202 (two hours) and the piano proficiency examination must be passed prior to graduation; therefore, additional piano may be required.
(c) Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.

**PIANO EMPHASIS AREA**

**Requirements**

1. Students must show demonstrable knowledge in all major and minor scales and tonic arpeggios, parallel motion, and four octaves in moderately rapid tempo.
2. Students should be able to perform Bach Two- and Three-Part Inventions; compositions corresponding in difficulty to Beethoven Sonata, Opus 14, No. 1; Mozart Fantasia in D Minor; Chopin Nocturne, Opus 44, No. 1; Schubert Impromptu, Opus 90, No. 4; and Debussy Arabesques.

**Required Courses**

(See minimum foreign language and core requirements)

- **Foreign Language**
  - French/German 110, 120
  - CONSVTY 101-402
  - CONSVTY 114, 115, 214, 215
  - Ensemble (Eight Semesters)*
- **English**
  - 300-level
  - CONSVTY 325-326
  - CONSVTY 325A-326A
  - CONSVTY 376, 377, 476, 477
  - CONSVTY 427-428
- **Music**
  - 437
  - CONSVTY 436-436A-436B-436C
  - Electives

* Piano performance majors have the option of using a maximum of four semesters of CONSVTY 305G, Collaborative Keyboard, in lieu of their major ensemble.

**PIANO PEDAGOGY EMPHASIS AREA**

**Prerequisites**

1. Students must show demonstrable knowledge of all major and minor scales and tonic arpeggios, parallel motion and four octaves in moderately rapid tempo.
2. Students should be able to perform Bach Two- and Three-Part Inventions; compositions corresponding in difficulty to Beethoven Sonata, Opus 14, No. 1; Mozart Fantasia in D Minor; Chopin Nocturne, Opus 44, No. 1; Schubert Impromptu, Opus 90, No. 4; and Debussy Arabesques.

**Required Courses**

(See minimum foreign language and core requirements)

- **Foreign Language**
  - French/German 110, 120
  - CONSVTY 101-402
  - CONSVTY 114, 115, 214, 215
  - Ensemble (Eight Semesters)(a)
- **Psychology**
  - 210
- **English**
  - 300-level
  - CONSVTY 325-326
  - CONSVTY 325A-326A
  - CONSVTY 376, 377
  - CONSVTY 427-428
- **Music**
  - 437
  - CONSVTY 436-436A
  - Electives

(a) Piano pedagogy performance majors have the option of using a maximum of four semesters of CONSVTY 305G, Collaborative Keyboard, in lieu of their major ensemble.
(b) Must be taken concurrently with appropriate pedagogy course.

**STRING INSTRUMENT EMPHASIS AREA**

**Prerequisites**

1. Students must show demonstrable knowledge of all major and minor scales and arpeggios, in one or two octaves, etudes and solos from standard literature of the instrument. One piece must be performed from memory.
2. Membership in high school orchestra or band is desirable.

**Required Courses**

(See minimum foreign language and core requirements)

- **Music**
  - CONSVTY 101-402
  - COMM-ST 110
  - 302 (eight semesters)
  - 305A (eight semesters)
  - 331
  - 427
  - 470D
  - 437
  - 223 -310
  - Electives

*Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.

**VOICE EMPHASIS AREA**

**Prerequisites**

 Students must be able to sing standard songs in English on pitch and with satisfactory phrasing and musical intelligence.
 Students must demonstrate ability to read a simple song at sight and should have completed the equivalent of PIANO 123.

**Required Courses**

(See minimum foreign language and core requirements)

- **Foreign Language**
  - French/German/Italian 110, 120
CONSVTY 101-402
CONSVTY 185A, 185B, 185C, 185D
ENGLISH 300-level
Major Choral Ensemble (Eight Semesters)(b)
THEATER 306
CONSVTY 417B, 417C
CONSVTY 437
CONSVTY 457-458
CONSVTY 491B-492B
CONSVTY 123, 223, 310
Electives

(a) Two years of one foreign language (French, German or Italian) is required. If two years of one of the required languages have been completed at the high-school level, then the language selected will be one of the other two languages.
(b) Ensemble: In addition to the required enrollment in a major choral ensemble each semester, students must also participate satisfactorily in two opera productions as assigned by the choral faculty in consultation with voice and opera faculty.
(c) Everyone must take a fall section of 417B. Six other credits may be chosen from 417C, 417D, 417E and 417F.
(d) Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.

WIND AND PERCUSSION EMPHASIS AREA

Prerequisites
1. Students must show demonstrable knowledge of all major and minor scales and arpeggios in one or two octaves, etudes and solos from standard literature of the instrument.
2. Membership in high school orchestra or band is desirable.

Required Courses
(See minimum foreign language and core requirements)
CONSVTY 101-402
COMM-ST 110
ENGLISH 300-level
CONSVTY 302/306A/306C (8 semesters)
CONSVTY 305 (8 semesters)
CONSVTY 311
CONSVTY 383
CONSVTY 427
CONSVTY 437
CONSVTY 223, 310
Electives (Music)
Electives

(a) Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.

BACHELOR OF MUSIC IN MUSIC THEORY

Degree Program Prerequisites
Formal approval of the music theory program must be acted upon after the student completes CONSVTY 222A or its equivalent. Students in this degree plan must maintain a minimum GPA of B- in the undergraduate music theory sequence (CONSVTY 121-129A, 122-129B, 221-229A, 222A-229B). Students not maintaining this minimum average may not graduate until an appropriate class or classes are retaken and the minimum average achieved.

Students must demonstrate functional piano facility, aural skills and satisfactory part-writing and analysis proficiency.

Music Theory Program Required Courses
(See minimum foreign language and core requirements (a))
CONSVTY 101-402
Ensemble (Eight Semesters)
ENGLISH 300-level
COMM-ST 110
CONSVTY 133-134
CONSVTY 235
CONSVTY 310
CONSVTY 329
CONSVTY 331A
CONSVTY 373 (two semesters)
CONSVTY 382/383
CONSVTY 424
CONSVTY 427
CONSVTY 428
CONSVTY 491K
CONSVTY 497
CONSVTY 498
Electives (Non-music)
Electives
Electives (Music)

(a) Petitions to substitute another language will be considered in special cases.
(b) Students majoring in music theory must complete 402 in an applied area.
(c) Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required. Should the placement exam require students to begin at a level before IV, two hours of electives may be used for this purpose.

BACHELOR OF MUSIC
The bachelor of music program is a professional baccalaureate degree program offered in performance, music composition or music theory.

The courses listed below represent a core curriculum that is required of all students seeking bachelor of music degrees. Additional emphasis area requirements are listed under the specific degree majors.

BACHELOR OF FINE ARTS
The Conservatory of Music offers a bachelor of fine arts in dance.

STUDENT LEARNING OUTCOMES
The Conservatory of Music aims to meet or exceed the educational standards set by the National Association of Schools of Dance (NASD) for the training of undergraduate dance students. To that
end students must
1. Demonstrate a basic ability in, and theoretical foundation for, ballet.
2. Demonstrate a basic ability in, and theoretical foundation for, modern dance.
3. Demonstrate basic knowledge of choreography.
4. Meet general studies requirements for the purpose of broadening their outlook on the world.

Students are encouraged to view the combination of dance and general studies as a means of developing a broad foundation for future artistic and intellectual development.

**BACHELOR OF FINE ARTS IN DANCE**

The Dance Division curriculum reflects the career goals and employment opportunities of the undergraduate dance students. Students will be admitted to the dance program on the basis of a successful audition before the dance faculty, and a positive evaluation of their academic credentials and physical fitness. Student progress in the dance program will be evaluated by the dance faculty each semester during training.

Students are admitted provisionally until they are approved for their major, based on the evaluation and recommendation of the dance faculty.

**Eligibility and Assessment Criteria**

1. Students auditioning for acceptance at the freshman level must demonstrate a basic ability in, and theoretical foundation for, dance training.
2. At the completion of the 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 a level three times to continue in a dance major.
4. When a student has met the proficiency standards at the completion of the freshman year, the student will petition for declaration of major emphasis on ballet and/or modern dance.
5. Following acceptance by the dance faculty, a student will be expected to complete the fourth-year levels of technical proficiency in the major area of emphasis and a third-year level in the secondary one.
6. Dance majors must maintain a B average in all dance technique classes and an overall combined 3.0 GPA in all dance courses.
7. Upon completion of all degree requirements, and a satisfactory evaluation by the dance faculty of the senior recital, a student may submit application for graduation.

**Program Prerequisites**

1. Students applying for the dance program must have previous training in ballet and/or modern dance.
2. Applicants will be admitted, upon approval of the dance faculty, following mandatory auditions by the students.

**Required DANCE Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 140A-140B</td>
<td></td>
</tr>
<tr>
<td>DANCE 141B-442B</td>
<td></td>
</tr>
<tr>
<td>DANCE 141M-444M</td>
<td></td>
</tr>
<tr>
<td>DANCE 107, 108</td>
<td></td>
</tr>
<tr>
<td>DANCE 213-213B</td>
<td></td>
</tr>
<tr>
<td>DANCE 217A, 217B</td>
<td></td>
</tr>
<tr>
<td>DANCE 218A, 218B, 319A, 319B</td>
<td></td>
</tr>
<tr>
<td>DANCE 250</td>
<td></td>
</tr>
<tr>
<td>DANCE 260, 261</td>
<td></td>
</tr>
<tr>
<td>DANCE 301</td>
<td></td>
</tr>
<tr>
<td>DANCE 302</td>
<td></td>
</tr>
<tr>
<td>DANCE 303</td>
<td></td>
</tr>
<tr>
<td>DANCE 305, 306</td>
<td></td>
</tr>
<tr>
<td>DANCE 309B</td>
<td></td>
</tr>
<tr>
<td>DANCE 310A, 310B</td>
<td></td>
</tr>
<tr>
<td>DANCE 313A, 313B</td>
<td></td>
</tr>
<tr>
<td>DANCE 405A, 405B</td>
<td></td>
</tr>
<tr>
<td>DANCE 413A, 413B</td>
<td></td>
</tr>
<tr>
<td>DANCE 414A, 414B</td>
<td></td>
</tr>
<tr>
<td>DANCE 415A, 415B</td>
<td></td>
</tr>
<tr>
<td>DANCE 416A, 416B, 416C</td>
<td></td>
</tr>
<tr>
<td>DANCE 493, 494</td>
<td></td>
</tr>
</tbody>
</table>

**Required General Studies Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY 101</td>
<td></td>
</tr>
<tr>
<td>ART 110</td>
<td></td>
</tr>
<tr>
<td>COMM-ST 110</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 110</td>
<td></td>
</tr>
<tr>
<td>ENGLISH 225</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 120 or 120M</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 353A or CONSVTY 125</td>
<td></td>
</tr>
<tr>
<td>THEATER 101 or 300</td>
<td></td>
</tr>
<tr>
<td>CONSVTY 375B</td>
<td></td>
</tr>
<tr>
<td>DANCE 106 -or- Computer Science 100</td>
<td></td>
</tr>
</tbody>
</table>

* A senior recital is required. The recital must consist of two different dance forms studied in the four years of coursework, including one solo and one group work choreographed by the student.

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 CONSVTY dance student handbook that is furnished to all dance students.

**BACHELOR OF ARTS IN MUSIC**

The Conservatory of Music and Dance aims to meet or exceed the educational standards set by the National Association of Schools of Music (NASM) for the training of undergraduate music students.

The Conservatory’s bachelor of arts in music degree requires a minimum of 129 credit hours of study. Fifty-four credit hours will be in music, including music theory and history, applied music, ensemble, listening laboratory and electives. There are approximately 48 credit hours required in the field of biological, physical and social sciences, and the humanities. A secondary specialty area, known as an area of concentration, requires approximately 15-18 credit hours from a block of 27 credit hours of electives.

Students accepted into the Conservatory’s bachelor of arts music program have great freedom in designing individual programs of study around their musical training. They may take courses in such areas as business, communications, English, theater, computer science, foreign languages and music therapy, which may lead to a double-major degree.

**STUDENT LEARNING OUTCOMES**

The Conservatory of Music and Dance aims to meet or exceed the educational standards set by the National Association of Schools of Music (NASM) for the training of undergraduate music students.

To that end the Conservatory endorses the acquisition of skills in musicianship and general studies.

**Musicianship:**

Every musician functions to some extent as:
- Performer
- Listener
- Historian
- Composer
- Theorist
- Teacher

Therefore students are required to be exposed to and develop basic competencies in all of these areas. The content of this area includes:
Sight-singing  
Ear-training  
Harmony  
Keyboard skills  
Counterpoint  
Conducting  
Music literature  
Performance practice

Undergraduate musicianship studies focus on:
2. Continued practice in creating, interpreting, presenting, analyzing, and evaluating music.
3. Increasing understanding of various musical cultures and historical periods.
4. Acquiring capacities to integrate musical knowledge and skills.
5. Accumulating capabilities for independent work in the music professions.

General Studies:

Studies in other areas of human achievement are important in the education of musicians. As a result students are required to develop an awareness of basic ideas and concepts in:

- Natural and physical sciences
- Social sciences and communication
- Other areas of the arts and humanities

Students are encouraged to view the combination of musicianship and general studies as a means of developing a broad foundation for future artistic and intellectual development. While broadly interacting with general studies courses, students in this degree program are encouraged to develop an "area of concentration" which represents a deeper knowledge of an area outside of music.

REQUIRED MUSIC COURSES

CONSVTY 121, 122, 221, 222A
CONSVTY 129A, 129B, 229A, 229B
CONSVTY 154 (Seven Semesters)
CONSVTY 154A
CONSVTY 323
CONSVTY 101-301
CONSVTY 490S
Piano (If not the applied area)*
Major Ensemble (Eight Semesters)**
Electives (Music)

*Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required. If keyboard is the applied area, two hours of music electives are required to be chosen from music history, music composition or music theory.

**All students whose applied area is voice are required to participate satisfactorily in two opera productions as assigned by the choral faculty in consultation with voice and opera faculty.

REQUIRED GENERAL STUDIES COURSES

| Humanities | 6 |
| Social Science | 6 |
| American History 101 or 102 | 3 |
| Biological Science (with lab) | 3(4) |
| English 110, 225, and one 300-level Writing Intensive Course | 9 |
| Communication Studies 110 Fundamentals of Effective Speaking and Listening | 3 |
| Advanced Math* (Calculus) or Statistics or MATH 206 | 3 |
| Conservatory 150 Intro to Music Literature | 3 |
| Conservatory 361, 362 History of Music in Western Civilization I, II | 6 |
| Conservatory 434 Acoustics | 3 |
| Conservatory 435, 456 Computer Literacy Area of Concentration (Non-music) | 15-18 |
| Electives (Non-music) | 9-12 |
| Total Hours | 75 |

*Must be higher than College Algebra & Trigonometry

MUSIC THERAPY EMPHASIS AREA PREREQUISITES

1. Students should be able to qualify for CONSVTY 101, Applied Study for Freshman, for two hours of credit in their major performance area.
2. Students should have enough proficiency at the piano to play popular songs and church hymns, and to harmonize simple folk songs. The ability to play by ear is useful.
3. Emotional stability and good physical stamina are also essential for a music therapist.
4. Applicants are required to complete an interview with a music therapy faculty member prior to admission.

Retention

In order to continue in the B.A. in music therapy degree program, a minimum 3.0 cumulative average in CONSVTY 128, 180 and 130 is required by the end of the student’s first year as a music therapy major. A student who fails to do so is considered to be on probation, and must retake the class or classes that caused the GPA to be under 3.0. The grade from the second taking of a class will supersede the grade for the first taking of a class when figuring the 3.0 minimum requirement.

Music Therapy Emphasis Area Required Music Courses

CONSVTY 101-301
CONSVTY 101C
CONSVTY 101, 122, 221, 222A
CONSVTY 128
CONSVTY 129A, 129B, 229A, 229B
CONSVTY 150
CONSVTY 154 (seven semesters)
CONSVTY 154A
CONSVTY 223-310
CONSVTY 302/306A/306C/307C/308A/301C (8 semesters)(c)
CONSVTY 315
CONSVTY 316
CONSVTY 351-352
CONSVTY 360
CONSVTY 373E or- Guitar 100B
CONSVTY 373N
CONSVTY 380 or-381
CONSVTY 425A or-425B

(a) Proficiency level 301 (2 hrs) in the major applied field must be passed.
(b) Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.
(c) If the applied area is in voice, two opera productions as assigned by the choral faculty in consultation with voice and opera faculty are required.

Music Therapy Emphasis Area Required Courses

LS-PHYS 117
STUDENT LEARNING OUTCOMES

BACHELOR OF MUSIC EDUCATION

Completion of the bachelor of music education degree at UMKC fulfills the requirements to teach music in grades K-12 (elementary general music and secondary vocal or instrumental music) in either Missouri or Kansas. As a member of NASM and NCATE, the Music Education/Music Therapy Division seeks to fully prepare future music educators and believes that the best preparation for teaching is the completion of all courses in the undergraduate music education curriculum. Therefore, all students seeking certification through the Conservatory of Music must satisfy the course requirements of the bachelor of music education degree. Before being admitted into the music teacher education sequence, students must:

1. Pass the C-BASE examination and
2. Submit an acceptable application to the School of Education by the end of the sophomore year.

STUDENT LEARNING OUTCOMES

The Conservatory of Music and Dance aims to meet or exceed the educational standards set by the National Association of Schools of Music (NASM) and the National Council for the Accreditation of Teacher Education (NCATE) for the training of undergraduate music students. To that end the Conservatory endorses the acquisition of skills in musicianship, education, and general studies.

Musicianship:

Every musician functions to some extent as:

- Performer
- Listener
- Historian
- Composer
- Theorist
- Teacher

Therefore students are required to be exposed to and develop basic competencies in all of these areas. The content of this area includes:

- Sight-singing
- Ear-training
- Harmony
- Keyboard skills
- Counterpoint
- Orchestration/arranging
- Conducting
- Music literature
- Performance practice

Undergraduate musicianship studies focus on:

2. Continued practice in creating, interpreting, presenting, analyzing, and evaluating music.
3. Increasing understanding of various musical cultures and historical periods.
4. Acquiring capacities to integrate musical knowledge and skills.
5. Accumulating capabilities for independent work in the music professions.

Education:

The UMKC Teacher Preparation program seeks to prepare teachers who:

- Have a strong liberal arts education and who are well-grounded in their content field(s).
- Demonstrate the development of pedagogic skills.
- Possess a professional and caring commitment to education.

Program goals are based on a set of key principles and express knowledge, skills and dispositions. These goals reflect the current knowledge base of teacher education as well as a commitment to the preparation of teachers who will be able to practice in schools as they are, and schools as they might be.

Program Goals:

1. The beginning teacher understands the discipline(s) he or she will teach and can create learning experiences that make these aspects of the subject matter meaningful to students.
2. The beginning teacher is able to engage in long range planning and curriculum development and evaluation based upon district, state and national performance standards.
3. The beginning teacher understands how children learn and develop, and can provide opportunities that support their intellectual, social and personal development.
4. The beginning teacher understands and respects students’ differences and creates instructional opportunities that are adapted to diverse learners.
5. The beginning teacher is able to use a variety of instructional strategies to encourage learners’ development of critical thinking, problem solving and process skills.
6. The beginning teacher creates a productive learning environment through the use of individual and group motivation that encourages positive social interaction, active engagement in learning, and self-motivation.
7. The beginning teacher models effective communication techniques (verbal, non-verbal, media, etc.) and facilitates student communication, collaboration and supportive interaction in the classroom.
8. The beginning teacher understands and uses formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social, emotional and physical development of the learner.
9. The beginning teacher is a reflective practitioner who continually evaluates the effects of his/her choices and actions on others and actively seeks opportunities to grow professionally.
10. The beginning teacher fosters relationships with school colleagues, parents and the larger community to support student learning and wellbeing.
11. The beginning teacher understands theories and applications of technology in educational settings and has adequate technological skills to create meaningful learning opportunities for all students.

General Studies:

Studies in other areas of human achievement are important in the education of musicians. As a result, students are required to develop an awareness of basic ideas and concepts in:

- Natural and physical sciences
Students are encouraged to view the combination of musicianship and general studies as a means of developing a broad foundation for future artistic and intellectual development.

**BACHELOR OF MUSIC EDUCATION EMPHASIS AREAS**
The Conservatory of Music and Dance offers a bachelor of music education degree with an emphasis in choral music, instrumental music or music therapy.

**BACHELOR OF MUSIC EDUCATION - CHORAL AND INSTRUMENTAL EMPHASIS AREAS**

**Prerequisites**
1. Students must have an ACT score of 21 or higher, or be at the 50 percentile or higher in the high school class rank, or have a high school grade-point average of 2.5 or better.
2. Applicants should complete an interview with a music education faculty member prior to admission.
3. Students who do not achieve these standards (listed above) may be considered for admission, but must meet the standards listed below to progress through the degree.

To be retained in the program the student must achieve the following:

**Before starting the junior year:**
- Complete 201 and be admitted into 202 in the applied area of study.
- Complete CONSVTY 223 or complete CONSVTY 310, Keyboard Skills IV, with a grade of B- or better.
- Compile a GPA of at least 2.8 overall and/or 3.0 GPA in music.

**Before the student teaching semester the student:**
- Must complete a 30-minute public recital and complete CONSVTY 310, Keyboard Skills IV, with a grade of B- or better.
- Must maintain an overall GPA of at least 2.8 with a 3.0 in music and a 3.0 in music methods (128, 385 and 386/387).

**BACHELOR OF MUSIC EDUCATION - INSTRUMENTAL EMPHASIS AREA**

**Required Music Courses**
- CONSVTY 101-401
- CONSVTY 101C
- CONSVTY 110, 123, 223, 310
- CONSVTY 121, 122, 221, 222A
- CONSVTY 128
- CONSVTY 129A, 129B, 229A, 229B
- CONSVTY 150
- CONSVTY 305 (four semesters)
- CONSVTY 154A
- CONSVTY 160/161
- CONSVTY 270 (Wind/Percussion students only)
- CONSVTY 360/360A/360C (six or seven semesters)
- CONSVTY 323
- CONSVTY 351, 352
- CONSVTY 358/359 (two semesters)
- CONSVTY 360
- CONSVTY 373 (eight semesters)
- CONSVTY 378/379
- CONSVTY 381
- CONSVTY 383
- CONSVTY 385
- CONSVTY 386
- CONSVTY 405
- CONSVTY 425B (String students may substitute CONSVTY 331, Orchestration I)
- CONSVTY 437
- CONSVTY 411A/411B/411C
- CONSVTY 412A/412B
- Student Teaching Music

**Required General Studies Courses**
- ENGLISH 110 and ENGLISH 225
- COMM-ST 110
- Biology with lab
- Physical Science or Acoustics CONSVTY 424
- MATH 110 OR 116
- American History 101 OR 102
- POL-SOC 210
- PSYCH 210
- TE 427
- TE 403
- TE 404
- TE 420
- TE 419/437

(a) A 30-minute recital is required. Applied studies requirement: the performance area may be in any area which carries applied music study numbers through 401. The successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of B- or better is required.
(b) 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, attain a two seven-credit-hour experiences divided between the CONSVTY and School of Education provide certification in Music K-12.

**BACHELOR OF MUSIC EDUCATION - CHORAL EMPHASIS AREA**

**Required Music Courses**
- CONSVTY 101-401
- CONSVTY 110, 123, 223, 310
- CONSVTY 121, 122, 221, 222A
- CONSVTY 128
- CONSVTY 129A, 129B, 229A, 229B
- CONSVTY 150
- CONSVTY 154 (four semesters)
- CONSVTY 154A
- CONSVTY 171, 172
- CONSVTY 307C/3018A/301C (eight semesters)
- CONSVTY 331
- CONSVTY 351, 352
- CONSVTY 357 (two semesters)
- CONSVTY 360
- CONSVTY 370
Bachelor of Music Education - Music Therapy Emphasis

Teacher Certification:

(see Bachelor of Music Education procedures)

Therapy Certification:

Graduates may apply for membership by writing to the American Music Therapy Association (AMTA). For Board Certification, graduates may write to the Certification Board For Music Therapy (CBMT). All coursework must be completed before beginning CONSVTY 410 Clinical Experience. Therapy students are required to enroll in a professional liability insurance program.

Prerequisites

Students must have an ACT score of 21 or higher, or be at the 50th percentile or higher in the high school class rank, or have a high school grade-point average of 2.5 or better.

Applicants should complete an interview with a music therapy faculty member prior to admission.

Students who do not achieve these standards (listed above) may be considered for admission, but must meet the standards listed below to progress through the degree.

Retention

Before starting the junior year:

Complete 201 and be admitted into 202 in the applied area of study.

Complete CONSVTY 223 or complete CONSVTY 310, Keyboard Skills IV, with a grade of B+ or better.

Complete a GPA of at least 2.8 overall and/or 3.0 GPA in music.

Complete CONSVTY 260, Clinical Foundations of Music Therapy.

Maintain a combined GPA of at least 2.75 in music theory and ear training classes.

Before the student teaching/internship year the student must:

Maintain an overall GPA of at least 2.8, with a 3.0 in music and a 3.0 in music methods classes (128, 385, 386/387) and therapy core classes (CONSVTY 130, 180, 210, 260, 406, 408, 409).

Complete CONSVTY 310, Keyboard Skills IV, with a grade of B+ or better.

Area Required Music Courses

CONSVTY 101-301
CONSVTY 101C
CONSVTY 121,122,221,222A
CONSVTY 128
CONSVTY 129A,129B,229A,229B
CONSVTY 130
CONSVTY 150
CONSVTY 154 (four for choral) (five for instrumental)
CONSVTY 154A
CONSVTY 210A
CONSVTY 210B
CONSVTY 210C
CONSVTY 210D
CONSVTY 210E
CONSVTY 210F
CONSVTY 223,310
CONSVTY 302
CONSVTY 306A/306C/307C/308B/301C (five semesters)/(f)
CONSVTY 315
CONSVTY 316 (for choral only)
CONSVTY 323
CONSVTY 351, 352
CONSVTY 357 (for choral only) (two semesters)
CONSVTY 370 (for choral only)
CONSVTY 373 (four-six semesters)
CONSVTY 380/381
CONSVTY 382/383
CONSVTY 385
CONSVTY 386/387
CONSVTY 405
CONSVTY 406
CONSVTY 408
CONSVTY 409
CONSVTY 410
CONSVTY 424
CONSVTY 425A/B
CONSVTY 435
CONSVTY 437
CONSVTY 411A/411B
CONSVTY 412A/412B

Area Required General Studies Courses

ENGLISH 110 and ENGLISH 225
LS-PHY 117
LS-NAT 118L
COMM-ST 110
American History 101 OR 102
POL-SCI 210
MATH 110 OR 116
SCHOOL OF NURSING

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 and Progression Committee for the following fall admission. Completed courses must include: Chemistry w/lab, Microbiology, Anatomy and Physiology, College Algebra, N101 and A&S100 (waived if transfer in with 24 or more credit hours). The application consists of a personal statement, completion of the TEAS exam and submission of copies of required immunizations. A copy of CPR certification, proof of health insurance, criminal background check and TB must be completed the summer following admission to the nursing major. The application submission deadline is Jan. 31. Again, admission to the clinical major is competitive and based on individual academic integrity and 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.

Pre-Nursing Admission Criteria for Transfer Students

A sample course of study for a full-time B.S.N. student is listed below. Students must maintain a minimum grade of C in all nursing coursework as well as carry a minimum semester GPA of 2.75.

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 High School Applicants

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.
3. Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of D or better is required.

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.

Fall Semester Year 1 (18 hours)

AS100 Methodologies for Pre-Health (3)
N101 Introduction to Nursing (2)
N130 Anatomy and Physiology I (4)
ENG 120 English I (3)
Math 110 College Algebra (3)
LS Micro 112 Microbiology and Man (3)

Spring Semester Year 1 (18 hours)

Apply to Clinical Major

Chem 115 Chemistry (4)
Chem 115L Chemistry Lab (1)
N130 Anatomy and Physiology II (4)
Psych 210 General Psychology (3)
Pol Sc 110 American Government (3)
Engl 225 English II (3)

Fall Semester Year 2 (18 hours)

Fine Arts Humanities Elective (3)
N250 Health Issues in Aging (3)
N250 Fundamental Concepts and Skills (6)
N250 Health Assessment (3)
N250 Pathophysiology (3)
Complete WEPT

Spring Semester Year 2 (17 hours)

Chem 206 Nutrition (3)
N 222 Human Growth and Development (3)
N250 Pharmacology (3)
N250 Management of Adult Health (5)
Writing Intensive Course (3)

Fall Semester Year 3 (16 hours)

Phil 210 or 221 or 222 (3)
N342 Legal and Ethical Issues (2)
N350 Quantitative Analysis in the Health Sciences (3)
N354 Management of Maternal and Family Health (eight weeks) (4)
N356 Management of Child and Adolescent Health (four weeks) (4)

Spring Semester Year 3 (15 hours)

N356 Applied Spanish for Health Care Pre-Professionals (3)
N350 Management of Mental Health (4)
N352 Management of Adult Health II (5)
N176 Scientific Inquiry (3)

Fall Semester Year 4 (14 hours)

Nursing, School of

SCHOOL OF NURSING 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.
3. Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of D or better is required.

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.

Fall Semester Year 1 (18 hours)

AS100 Methodologies for Pre-Health (3)
N101 Introduction to Nursing (2)
N130 Anatomy and Physiology I (4)
ENG 120 English I (3)
Math 110 College Algebra (3)
LS Micro 112 Microbiology and Man (3)

Spring Semester Year 1 (18 hours)

Apply to Clinical Major

Chem 115 Chemistry (4)
Chem 115L Chemistry Lab (1)
N130 Anatomy and Physiology II (4)
Psych 210 General Psychology (3)
Pol Sc 110 American Government (3)
Engl 225 English II (3)

Fall Semester Year 2 (18 hours)

Fine Arts Humanities Elective (3)
N250 Health Issues in Aging (3)
N250 Fundamental Concepts and Skills (6)
N250 Health Assessment (3)
N250 Pathophysiology (3)
Complete WEPT

Spring Semester Year 2 (17 hours)

Chem 206 Nutrition (3)
N 222 Human Growth and Development (3)
N250 Pharmacology (3)
N250 Management of Adult Health (5)
Writing Intensive Course (3)

Fall Semester Year 3 (16 hours)

Phil 210 or 221 or 222 (3)
N342 Legal and Ethical Issues (2)
N350 Quantitative Analysis in the Health Sciences (3)
N354 Management of Maternal and Family Health (eight weeks) (4)
N356 Management of Child and Adolescent Health (four weeks) (4)

Spring Semester Year 3 (15 hours)

N356 Applied Spanish for Health Care Pre-Professionals (3)
N350 Management of Mental Health (4)
N352 Management of Adult Health II (5)
N176 Scientific Inquiry (3)

Fall Semester Year 4 (14 hours)

Nursing, School of

SCHOOL OF NURSING 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.
3. Successful completion of CONSVTY 310, Keyboard Skills IV, with a grade of D or better is required.

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.

Fall Semester Year 1 (18 hours)

AS100 Methodologies for Pre-Health (3)
N101 Introduction to Nursing (2)
N130 Anatomy and Physiology I (4)
ENG 120 English I (3)
Math 110 College Algebra (3)
LS Micro 112 Microbiology and Man (3)

Spring Semester Year 1 (18 hours)

Apply to Clinical Major

Chem 115 Chemistry (4)
Chem 115L Chemistry Lab (1)
N130 Anatomy and Physiology II (4)
Psych 210 General Psychology (3)
Pol Sc 110 American Government (3)
Engl 225 English II (3)

Fall Semester Year 2 (18 hours)

Fine Arts Humanities Elective (3)
N250 Health Issues in Aging (3)
N250 Fundamental Concepts and Skills (6)
N250 Health Assessment (3)
N250 Pathophysiology (3)
Complete WEPT

Spring Semester Year 2 (17 hours)

Chem 206 Nutrition (3)
N 222 Human Growth and Development (3)
N250 Pharmacology (3)
N250 Management of Adult Health (5)
Writing Intensive Course (3)

Fall Semester Year 3 (16 hours)

Phil 210 or 221 or 222 (3)
N342 Legal and Ethical Issues (2)
N350 Quantitative Analysis in the Health Sciences (3)
N354 Management of Maternal and Family Health (eight weeks) (4)
N356 Management of Child and Adolescent Health (four weeks) (4)

Spring Semester Year 3 (15 hours)

N356 Applied Spanish for Health Care Pre-Professionals (3)
N350 Management of Mental Health (4)
N352 Management of Adult Health II (5)
N176 Scientific Inquiry (3)

Fall Semester Year 4 (14 hours)
Socio-Political Elective (3)
Nursing Elective (2)
N465 Management of Community and Public Health (eight weeks) (4)
N482 Management of Critical and Emergent Care (5)

Spring Semester Year 4 (12 hours)
N462 Special Topics in Health Care (2)
N481 Effectiveness in Complex Health Systems II (5)
N472 Clinical Internship (5)

R.N. TO B.S.N.
The University of Missouri-Kansas City School of Nursing B.S.N. completion program is offered online with the ability to take some select courses on campus. The 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 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. Up to three days on campus per semester may be required for orientation and testing, i.e. Health Assessment. Additionally, all core nursing courses are reflective of the needs of the adult learner.

Clinical practica focus on projects that meet community needs, and suitable projects are identified in collaboration with students and community 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 56 credit hours in general education coursework that may include the humanities, mathematics and social, behavioral and natural sciences.

The University requires that all students complete a three-hour constitution course. UMKC courses that currently satisfy this requirement include: Hist 101, 102, 360R or Pol Sc 210. In addition, students must complete:

- English Composition I & II
- Philosophy course
- 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.
- Completion of specific coursework for graduates of diploma programs and non-NLNAC associate degree programs.

Thirty-six hours of upper-division nursing credits are required. The UMKC School of Nursing has developed an innovative program where students, as a cohort group, progress through four "blocks" of coursework. Rather than traditional, individual courses, the curriculum is integrated and based on concepts integral to successful nursing in the changing health care system. Both full- and part-time plans are available.

The nursing curriculum consists of:

N401 Health Assessment (3)
N476 Scientific Inquiry (3)
N481 Tools for Personal Effectiveness (6)

- Introduction to Paper for Publication
- Introduction to Theory
- Professionalism
- Historical Roots of Health Professions
- Power Bases and Image
- Time and Stress Management
- Career Mapping
- Scope and Standards of Practice
- Moral Development and Values
- Critical Thinking and Decision Making
- Introduction to Research/Evidence-based Practice
- Ethics
- Introduction to Informatics
- Diversity in the Work Force

N482 Tools for Interpersonal Effectiveness (6)

- Conflict Resolution and Negotiation
- Communication Skills and Theories
- Leading and Managing Change
- Professional Ethics
- Groups and Teams
- Legacies of Health Care
- Marketing
- Informatics
- Nursing, and Public Policy
- Cultural Diversity in Health Care
- Small Team Projects

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
- Precede - Proceed Model
- Bioterrorism Preparedness
- Human Patient Simulation
- Electronic Health Record
- Economics in Health Care
- Health & Inequality
- Vulnerable Populations
- Social Justice in Nursing

N484 Effectiveness in Complex Health Systems (6)
DOCTOR OF PHARMACY (PHARM.D.) CURRICULAR REQUIREMENTS

SCHOOL OF PHARMACY

STUDENT LEARNING OUTCOMES

Upon graduation the student will:

1. incorporate knowledge from arts, humanities and sciences in the planning and provision of professional nursing care.
2. demonstrate Personal Effectiveness as evidenced by progressing from awareness to knowledge to proficiency in the following competencies: Critical Thinking, Professional Valuing/Caring, and Professional Role Development.
3. demonstrate Interpersonal Effectiveness as evidenced by progressing from awareness to knowledge to proficiency in the following competencies: Communication, Teaching/Learning, and Technology Utilization.
4. demonstrate Effectiveness in Human Health Outcomes as evidenced by progressing from awareness to knowledge to proficiency in the following competencies: Health Promotion and Disease Prevention and Evidence-Based Care.
5. demonstrate Effectiveness Within Complex Health Systems as evidenced by progressing from awareness to knowledge to proficiency in the following competencies: Leadership/Management, Global Perspectives, and Health Care Systems and Policy.

DOCTOR OF PHARMACY (PHARM.D.) CURRICULAR REQUIREMENTS

The doctor of pharmacy degree program provides broad and general preparation in professional areas of practice with the intent that, on completion, graduates will be able to practice at a level sufficient to perform the established functions of a pharmacist. In addition, the Pharm.D. program prepares the student for advanced levels of professional practice. The major emphasis is on the clinical sciences and drug-related patient care.

This program is designed to provide advanced education and training in clinical pharmacy and drug information with particular emphasis on interprofessional team participation in the delivery of health care. To enable students to concentrate solely on this advanced professional coursework, those entering the doctor of pharmacy program are strongly encouraged to limit their work and/or intern hours during the academic year.

The five year professional course of study leading to the doctor of pharmacy encompasses 10 semesters. Coursework in the first professional year includes various required science courses and additional humanities and social science 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 and continue the professional development series.

In semesters five and six, students engage in advanced lecture and laboratory coursework in the pharmaceutical and pharmacological sciences, introductory clinical sciences, finish the professional development series and select professional electives designed to reinforce the pharmacy career track.

In semesters seven and eight, Pharm.D. candidates pursue advanced coursework in the clinical sciences to include pharmacotherapeutics, evidence based medicine and health assessment, and take part in introductory pharmacy practice experiences (IPPE). During this period, students also finish professional electives.

The final two semesters encompass advanced pharmacy practice experiences (APPE). Drug literature evaluation, instruction and practice will be an integral part of the APPEs. Each student will be exposed to a core number of required and elective APPEs.

During the advanced pharmacy practice experiences the Pharm.D. student is expected to assume the clinical responsibility of a pharmacist under the direct supervision of a faculty member. The emphasis of the candidate's activities will be the management of pharmacotherapeutic and pharmaco-kinetic problems encountered with patients' drug regimens at the assigned practice site. Students will also be engaged in ongoing drug utilization reviews, patient and health provider education programs, and other pertinent activities involved in the provision of patient care.

While clinical responsibilities occur during all of the students APPEs, the primary focus will vary with a student's choice of elective experiential rotations. Health systems rotations will focus on the organizational, technical and administrative aspects of providing pharmaceutical care.

Pharm.D. students are required to complete approximately nine months of experiential rotations. IPPE and APPE prerequisites include satisfactory completion of all degree requirements prior to the respective term of the professional curriculum that these experiences take place. Candidates must also complete and submit all required documentation as noted on the School of Pharmacy Experiential Programs website at http://pharmacy.umkc.edu/experientialprograms/home_page.asp. All immunizations, as listed on the above website link, must be on file with the Office of Experiential Programs before academic service learning and IPPE and APPEs begin and must remain current through the last experiential rotation. Students on experiential rotations may not enroll in didactic courses outside of the required Pharm.D. curriculum without prior approval of the Director of Experiential Learning.

Doctor of pharmacy students are strongly encouraged to attend the American Society of Health-Systems Pharmacists Mid-Year Clinical Meeting in December to begin residency interviews.

Because pharmacy is a profession undergoing rapid change, the curriculum is subject to continual review and modification. As society's needs for specific types of pharmaceutical service change, the curriculum will change as well. To assure the best pharmacy education for its students, the School of Pharmacy reserves the right of making judicious changes and improvements in course sequence, course content, or other program requirements at any time that must be completed and adhered to in order to meet graduation degree requirements.

Pharm.D. Graduation Requirements

To graduate, Pharm.D. candidates must meet the following requirements in addition to the 31 credit hour prerequisite requirements:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHARM 101</td>
<td>Professional Skills Development I</td>
</tr>
<tr>
<td>PHARM 106</td>
<td>Medical Terminology (a)</td>
</tr>
</tbody>
</table>

(a) Pass/Fail grading system
A minimum of 10 credit hours of professional elective coursework must be completed while enrolled in the School of Pharmacy. Coursework completed before entry in the professional program will not transfer as professional elective credit. General and professional elective courses cannot be double counted.

The following is a partial list of courses approved to satisfy professional electives. A current list of approved professional electives is available on the School of Pharmacy home page at http://pharmacy.umkc.edu/ under the Current Students section.

- Home Health Care
- Principles of Nutritional Support
- Reproductive Biology
- Computers in Pharmacy
- Radiopharmaceuticals
- Hospital Pharmacy
- Islam and Modern Practice of Medicine and Pharmacy
• Academic Service Learning
• Pediatric Pharmacotherapy
• Comprehensive Diabetes Management
• Introduction to Dietary Supplement Therapeutics
• Pharmacy Seminar
• Social and Psychological Development Through the Life Cycle
• The Experience of Health in Aging
• Death and Dying
• Policies of Drug Use and Control
• Pharmacy Seminar
• Directed Individual Study
• Health Service Administration and the Health Professions

(d) Pharmacy 7345 must be successfully completed during either the fall or spring semester.

(e) Students enroll in General Medicine I during the fall semester for 4.0 credit hours; however, half of the General Medicine I course is completed during the fall and the remainder of the course during the spring semester. Spring re-enrollment is not required.

Semester Nine

Pharmacy Experiential Rotations        Hours vary

Semester Ten
Pharmacy Experiential Rotations        Hours vary

Required Introductory and Advanced Pharmacy Practice Experiences

| PHARM 7404P | General Medicine I |
| PHARM 7407P | General Medicine II |
| PHARM 7419P | General Medicine IV |

PHARM 7406P  General Medicine I
PHARM 7408P  General Medicine II
PHARM 7410P  General Medicine III
PHARM 7411P  Community Pharmacy Practice Clerkship
PHARM 7412P  Community Pharmacy Practice Clerkship
PHARM 7413P  Elective Clerkship I
PHARM 7414P  Elective Clerkship II

PHARM 7415P  Elective Clerkship III

Optional Advanced Pharmacy Practice Experience

Students must complete all required Pharm.D. didactic coursework and a number of required documentation minimums prior to enrollment in the Introductory and Advanced Pharmacy Practice Experiences. Required documents must be on file in the Office of Experiential Rotations and must remain current through the student's last rotation. Please see the School of Pharmacy Experiential Programs website at http://pharmacy.umkc.edu/experientialprograms/homepage.asp for a list of required documentation.

Graduation Requirements

To graduate, students must successfully complete all required coursework listed in the curriculum for a minimum of 190 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. Within the 190 hours, the following minimums must be met:

| Mathematics/Basic Science coursework | 53 hours |
| Pharmacy Didactic coursework         | 75 hours |
| Professional Electives               | 10 hours |
| Experiential Learning                | 40 hours |

Humanities and social science course requirements (including pre-pharmacy coursework):

| English Composition                  | 6 hours |
| Fundamentals of Effective Speaking & Listening | 3 hours |
| U.S. Constitution course             | 3 hours |

Students with a previous baccalaureate degree from a regionally accredited institution in the United States are exempt from the Written English Proficiency Test.

**STUDENT LEARNING OUTCOMES**

**Curricular Outcomes Expected of Pharmacy Graduates**

Pharm.D. graduate outcomes include competence in Domains I-IV. Baccalaureate pharmacy graduate outcomes include competence in Domain I, Competency 1B, Components 1, 4, 5 and 7 and Domain IV.

**Domain I: Provide Pharmaceutical Care**

Competency 1A: Gathers and organizes information in order to identify ongoing or potential health-related problems and the root cause of the problems. Components:

- Understands and collects accurate and comprehensive information from appropriate sources.
- Identifies the patient's primary complaint(s) and reason(s) for seeking medical care.
- Employs clinical assessment skills to determine the adequacy of patient therapeutic self-management.
Definition and General Description of the Program

Schools of pharmacy, as well as schools of medicine, have traditionally focused on the medically related life sciences. While schools of medicine generally have not become involved in undergraduate education, schools of pharmacy have evolved professional programs producing pharmacists and pharmaceutical scientists in direct collaboration with colleges of arts and sciences. Pharmaceutical sciences represents, in one sense, the collective basic science that underlies pharmacy. Rooted in discovery and development of therapeutics, pharmaceutical scientists seek to identify and understand chemical, biochemical, pharmacological, toxicological and other fundamental processes necessary to develop these drugs.

Pharmaceutical science and pharmacy itself both clearly require early training in biology, chemistry and physics. While students in these more basic disciplines move on to increasingly specialized courses of study indigenous to those separate sciences, students of pharmaceutical sciences, or related life sciences, evolve in a course of study which continues to stress a cross-fertilization of ideas of fundamental biology and chemistry while focusing on the complexity and balance of living systems.

Students in the pharmaceutical sciences degree program will be broadly trained during the early stages of the curriculum in the arts, humanities and social sciences while achieving a broad early emphasis in the natural sciences and a later specialization within the chemical and pharmaceutical sciences. The program of study will sharpen their cognitive and affective skills consistent with...
other alternative programs at the UMKC campus. The structure, diversity and functional characterization of living systems will be studied, examined, and understood with emphasis on the nature of disease, the disease process, and the design and development of drugs and dosage forms.

**Career Applications**

Students in the B.S. in pharmaceutical sciences program will be prepared to begin specialized study at the graduate level in a number of pharmaceutical sciences. They may directly enter the work force in the biomedical or pharmaceutical industry and make a significant contribution to the health and well-being of society through the design and development of novel therapeutic agents or processes. More importantly, their understanding of the interactions between environmental chemicals and humans will make them attractive applicants for positions in regulatory agencies and industries dealing with such issues. The advanced graduate and postgraduate education which some will seek will result in a higher level of scholarship and the potential for a more fundamental contribution.

The specific demand for students trained at the B.S. level in pharmaceutical sciences is increasing. In the pharmaceutical industry, graduates with this specific training have been sought as technical assistants in pharmacological and pharmaceutical laboratories and related areas where the B.S. trained biologist or chemist would not be expected to be as attractive a candidate.

It is widely acknowledged that schools and colleges of pharmacy need to increase the number of B.S.-trained pharmaceutical scientists who will enter their graduate programs. The graduates of Ph.D. programs in pharmaceutical sciences are in increasing demand in both academia and the pharmaceutical industry, and are expected to provide the primary base from which the professorate of colleges and schools of pharmacy is renewed and continued. Graduates with a B.S. in pharmaceutical sciences also can apply for sales positions in the pharmaceutical industry.

**Advising**

Students will receive academic advising from professional staff in the Pharmacy Student Services Office, as well as a faculty adviser. Applicants may elect to complete the first two years of the B.S. in pharmaceutical sciences curriculum at another accredited college or university and then transfer to UMKC. Students planning to transfer coursework should check with the Pharmacy Student Services Office to verify course transfer equivalencies from other institutions.

**Application**

Admission to the program requires a student to complete the UMKC general application. Completion of supplemental materials currently are not required. Applicants must achieved a minimum 2.5 cumulative college grade-point average to meet eligibility requirements for admission. Contact the Pharmacy Student Services Office at (816) 235-1613 or send an e-mail to pharmacy@umkc.edu if you have questions regarding the degree program.

Because pharmacy is a profession undergoing rapid change, the curriculum is subject to continual review and modification. As society’s needs for specific types of pharmaceutical service change, the curriculum will change as well. To assure the best pharmaceutical education for its students, the School of Pharmacy reserves the right of making judicious changes and improvements in course sequence, course content, or other program requirements at any time that must be completed and adhered to in order to meet graduation requirements for the degree program.

**Description of the Curriculum**

| ENGL 110 | English Composition I | 3 |
| BIOL 107/107L | General Biology I | 4 |
| CHEM 211/211L | General Chemistry I | 5 |
| General Elective (Speech) | 3 |
| **Total15** | **Hours** | |

| ENGL 225 | English Composition II | 3 |
| BIOL 108/108L | General Biology II | 4 |
| CHEM 212R/212LR | General Chemistry II | 5 |
| General Electives | 6 |
| **Total15** | **Hours** | |

| MATH 210 | Calculus w/Analytical Geometry | 4 |
| CHEM 321/321L | Organic Chemistry I | 4 |
| BIOL 205 | Cell Biology | 3 |
| General Elective (U.S. Constitution) | 3 |
| General Elective | 3 |
| **Total19** | **Hours** | |

* The statistics course can be satisfied by successful completion of EDUC 2505 or MATH 236.

| PHARM 7110 | Pharmaceutical Calculations | 2 |
| CHEM 341 | Analytical Chemistry I | 4 |
| PHYS 210 | Physics w/Lab | 4 |
| Statistics | 3 |
| General Elective | 3 |
| **Total16** | | |

| PHARM 7341 | Medicinal Chemistry I | 3 |
| LEBIOC 365 | Human Biochemistry I | 3 |
| LSPHYS 399 | Pharmacy Physiology I | 3 |
| General Electives | 6 |
| **Total15** | **Hours** | |

| PHARM 7344 | Medicinal Chemistry II | 3 |
| CHEM 342 | Analytical Chemistry I | 4 |
| **Total16** | **Hours** | |
** Students must pass the Written English Proficiency Test (WEPT) prior to enrollment in the writing intensive elective.

General CLEP credits may not be used to fulfill the mathematics, physics, or chemistry requirements.

*** This optional elective brings the credit hours to 129. This elective is not necessary to achieve the minimum credit hours for a UMKC baccalaureate degree, but it allows the student to select a 400- or 5500-level course in chemistry or biology or a 7400- or 5500-level course in pharmacy.

Students must complete the following general education requirements:

- ENGL 110 English Composition I
- ENGL 225 English Composition II
- 3 credit hours of fine arts from:
  - Art
  - Art History
  - Music
  - Theatre
- 3 credit hours of humanities course work from:
  - Foreign Language
  - Philosophy
  - English
  - Communication Studies
- 6 credit hours of social and behavioral sciences from:
  - Sociology
  - Geography
  - Criminal Justice
  - Psychology
  - Economics
- One course covering the U.S. Constitution from:
  - American History
  - American Government
- One public speaking course
- 6 credit hours of higher order thinking courses from:
  - Western Civilization
  - Ancient History
  - Philosophy
  - Logic
  - Cultural Anthropology
- One 3 credit hour writing intensive course.

Students are encouraged to work with their faculty adviser in planning their capstone course work. Students may choose to complete dual and/or double B.S. degrees in a related area. Students are also encouraged to seek out internship opportunities. Internship opportunities are usually a paid experience where a student can gain valuable, hands-on knowledge related to their program of study (Note: students may not obtain course credit through internships).

---

**Pre-Medicine / Pre-Health**

**PRE-MEDICINE / PRE-HEALTH PRE-MEDICINE/DENTISTRY**

**Pre-Medicine/Dentistry**

The purpose of the pre-medicine/dentistry curriculum is to prepare the student for application to medical/dental schools. Students may complete the pre-medicine/dentistry curriculum within any major.

The courses recommended in the pre-medicine/dentistry curriculum do not constitute an academic major but are the courses required for entrance into the majority of medical/dental schools in the United States and Canada. They also provide students with the information needed to obtain top scores on the Medical College Admission Test (MCAT) and Dental Admissions Test (DAT), which are required for entrance into medical and dental schools.

In addition to gaining a strong foundation in the sciences, pre-medicine/dentistry students also will receive support services to help them best prepare for application to medical or dental school.

For students considering other health professions or seeking admission to specific programs with additional prerequisite courses, the curriculum may be tailored to meet these requirements.

**Medical/Dental School Admission Requirements**

**A. Two semesters (eight semester hours) of general biology with corresponding laboratories:**

- Biology 101 General Biology I
- Biology 102 General Biology I Lab
- Biology 103 General Biology II
- Biology 104 General Biology II Lab
- Biology 105 General Biology I 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 212 General Chemistry II
- Chemistry 212L General Chemistry II Lab

C. Two semesters (eight semester hours) of organic chemistry with corresponding laboratories:

- Chemistry 321 Organic Chemistry I
- Chemistry 321L Organic Chemistry I Lab
- Chemistry 322 Organic Chemistry II
- Chemistry 322L Organic Chemistry II Lab

D. Two semesters (eight semester hours) of physics including laboratories:

- Physics 210 General Physics I
- Physics 210L General Physics I Lab
- Physics 220 General Physics II
- Physics 220L General Physics II Lab

E. Two semesters (six semester hours) of English composition:

- English 110 Freshman English I
- English 225 English II

In addition to the admission requirements listed above, most medical and dental schools recommend more advanced courses in biology, such as cell biology, genetics and biochemistry, and/or additional chemistry courses. Students should also take upper-level courses that demonstrate the requisite intellectual discipline and analytical and problem solving skills necessary to succeed in medical or dental school. Students are strongly encouraged to balance their work in the sciences with courses in communication studies, computer science, English literature, philosophy, psychology and sociology. A broad understanding of health care and medicine is also expected and work and/or volunteer experiences, including physician shadowing, in settings such as health care agencies, hospitals and physician offices is recommended.

**UMKC School of Medicine MD Completion program**

While the UMKC School of Medicine is primarily a combined-degree (BA/MD) program, it annually accepts a limited number of MD-only students who have completed their pre-medical studies and baccalaureate degrees. Students completing their pre-medical studies at UMKC and applying to the School of Medicine have the advantage of taking courses with medical students, interacting with faculty who also teach at the medical school and securing recommendations from individuals familiar with the School of Medicine’s curriculum and faculty. For more information about this program or to request an application, contact the Admissions Office at the School of Medicine.

**UMKC School of Dentistry Reserved Admission Program**

The Reserved Admission Program for the Doctor of Dental Surgery (DDS) degree at the UMKC School of Dentistry enables highly motivated, ambitious, talented students to pursue their dream of becoming a dentist. Because admission to the Reserved Admission Program is very competitive, qualified reserved admission program students will have a reserved seat in a future UMKC School of Dentistry DDS Program class of their choosing, and they will not have to compete further for admission into the UMKC dental school. Entry into the program is available to students from Missouri and Kansas.

To be eligible to apply for Reserved Admission you must have completed a minimum of but not more than four semesters of college credit while being continuously enrolled in full-time course loads (a minimum of 15-18 credit hours per semester). Your science grade point average must be at least 3.60 in a degree-seeking program including prerequisite courses.

For more information about this program or to request an application, contact the Office of Student Programs at the School of Dentistry, 816-235-2080.
Notice to All Users of the UMKC 2008-2009 Undergraduate and Graduate Catalogs: UMKC is changing the way it produces and makes available its comprehensive catalog. The 2008-2009 Catalogs are the first to be produced under the new method.

A few things have not changed:
· Catalogs are no longer produced in print.
· Catalogs are available online at www.umkc.edu/catalog <http://www.umkc.edu/catalog>.
· Undergraduate and Graduate Catalogs are available in two versions, a web (HTML format) version, and a printable document (PDF format) version.

The first and most important thing that has changed is that the two versions (PDF and HTML) have different purposes:
· The PDF versions are the official sources of academic program requirements that govern progress towards completion of undergraduate and graduate degree, credential, and certificate programs. The PDF versions are produced annually and the information in each annual publication does not change after publication. This PDF version is not the best source of any information except 2008-2009 academic program requirements. See the HTML version for the most up to date departmental, unit, and university-wide information.
· The HTML versions of the Undergraduate and Graduate Catalogs are the official sources of all other departmental, unit, and university-wide information related to undergraduate and graduate academic programs, including the most recent pending changes to program requirements that have been approved but are not yet effective. The HTML versions will be continually updated and are therefore the best source of current information such as university and program accreditation information, admissions policies and procedures, general academic regulations, fees, academic and student services and resource information, and faculty and staff contact information.